



**MAHATMA GANDHI UNIVERSITY**  
*of*  
**MEDICAL SCIENCES & TECHNOLOGY**  
JAIPUR

## **Choice Based Credit System**

# **Curriculum for Bachelor of Occupational Therapy (BOT)**

**(4½ Years Degree Program including 6 months Rotatory Internship)**

**w.e.f - 2023-24**

Recommended by Committee of Courses Occupational Therapy at its meeting  
held on 03/03/2023 and approved by Academic Council at its meeting held on  
28/04/2023.

## **Notice**

- The university reserves the right to make changes in the Rules / Regulations / Syllabus / Books / Guidelines / Fees-Structure or any other information at any time without prior notice. The decision of the University shall be binding on all.
- The Jurisdiction of all court cases shall be Jaipur Bench of Hon'ble Rajasthan High Court only.

**RULES & REGULATIONS  
OF  
BACHELOR OF OCCUPATIONAL THERAPY (BOT)  
(4½ years Degree Program (8 Semesters) including 6 months Rotatory Internship)**

**Program Code: BOT-23**

**1. Introduction: Objectives of the Bachelor of Occupational Therapy (BOT) Program:**

This program is formulated to enable the student to gain adequate knowledge, skills and clinical hands-on experience leading to establish them as an independent professional in clinical practice. The BOT course shall allow the students:

- To acquire adequate knowledge about ethical, evidence based and efficient occupational therapy practice across the lifespan and the continuum of care dealing with an array of conditions to all people irrespective of gender, caste, nation, states and territories, region, minority groups, or other groups.
- To facilitate knowledge exchange through organization of seminars, conferences, symposiums, workshops, lectures CME's and other such activities along with classroom learning through interactive learning systems and hands on clinical trainings.
- To acquire the ability to operate as independent practitioners, as well as members of health service provider teams, acts as first contact practitioners, from whom patients/clients may seek direct services without referral from another health care professional.
- To facilitate the ability to promote the health and well-being of individuals and general public/society, emphasizing the services for building a healthy, empowered and sustainable society.
- To acquire skills in management, research and teaching in occupational therapy as well as guidance and counselling of patients regarding occupational therapy.
- To acquire proper attitude for compassion and concerns of patients and welfare of physically & mentally handicapped in the community.
  
- To practice moral and ethical values and evidence base practice with regard to occupational therapy.
- To be at the forefront of innovation by consistently keeping up with the promotion of research in the frontier areas of the subject by inculcating ethical principles of research.

**PO1:** The student will be able to understand and have understanding of occupational therapy procedures used in diagnostic and treatment.

**PO2:** The student will be able to grow his or her ability to diagnose and differentiate between diagnoses in problems requiring occupational therapy.

**PO3:** The student will be able to develop and create the treatment facility to meet the patients' demands.

**PO4:** The learner will be able to identify themselves as providing appropriate healthcare as an occupational therapist.

**PO5:** The students will be able to comprehend the demands of society in terms of health care and the best ways to meet those needs.

**PO6:** The student will be able to acquire and use fundamental medical information for the accurate diagnosis and management of occupational therapy conditions.

**PO7:** The students will acquire knowledge of, put into practice, and apply relevant ethical principles for efficient and ideal care.

**PO8:** The students will comprehend their rules and duties as either an individual or as a member of a rehabilitation team in the provision of efficient medical care.

**PO9:** The students will be able to work and communicate effectively in an interdisciplinary context either independently or as a team, and they will possess strong leadership traits and entrepreneurial skills.

**PO10:** The student will be able to exhibit and use technical abilities to incorporate the fundamental components of occupational therapy practice.

**PO11:** To prepare students for higher education and programs for lifelong learning by giving them a broad enough understanding of occupational therapy and associated fields.

### **PROGRAM EDUCATION OBJECTIVES (PEOs)**

The overall objective of the Learning Outcome-based Curriculum Framework (LOCF) for BOT are as follows:

<b>PEO No.</b>	<b>EDUCATION OBJECTIVES</b>
<b>PEO1</b>	Students will be able to apply fundamental body of knowledge and clinical competency in occupational therapy to achieve professional excellence
<b>PEO2</b>	Sstudents will execute application of clinical and practical skills in occupational therapy
<b>PEO3</b>	Sstudents will practice the professional by ethical norms and communicate effectively with the multi – disciplinary team
<b>PEO4</b>	Students will acquire creative proficiency in interpersonal and collaborative skills of identify SS and formulate problems and as you can get the solution
<b>PEO5</b>	Sstudents will be able to imbibe the culture of inter friendship research Innovation and incubator new avenues for professional growth
<b>PEO6</b>	students will display lifelong learning process for a highly productive career and will be able to the concepts of occupational therapy towards serving the course of the society

After successful completion of Bachelor of Occupational Therapy program, students will be able to:

<b>PO No.</b>	<b>Attribute</b>	<b>Competency</b>
<b>PO 1</b>	Professional knowledge	Applying scientific information to one's work as a healthcare worker.
<b>PO 2</b>	Clinical/ Technical Skills	Clinical expertise of employees in order to deliver high-quality medical treatment wholesome
<b>PO 3</b>	Team Work	Demonstrate teamwork with the interdisciplinary health care team to achieve common goals and enhance society health.
<b>PO 4</b>	Ethical value & professionalism	Process and exhibit ethical principles and professionalism within the legal framework of the social health
<b>PO 5</b>	Communication	communicate in a professional manner with the society and the multidisciplinary healthcare team.

<b>PO 6</b>	Evidence based practice	Demonstrate excellent evidence-based practices that produce outstanding professional practice.
<b>PO 7</b>	Lifelong learning	Utilize modern technology to expand knowledge and skills in order to keep improving professional practice.
<b>PO 8</b>	Entrepreneurship, leadership and mentorship	Demonstrate entrepreneurship, leadership, and mentoring abilities that can be put to use both on one's own and in cooperation with a multidisciplinary health care team.

**Learning Objectives:** At the completion of this course, the student should be-

- The goal of this curriculum is to outline the cognitive, affective, and psychomotor skills deemed necessary for completing this program and functioning as a qualified occupational therapist who will be able to examine, evaluate, diagnose, carry out, and record occupational therapy treatment either independently or in collaboration with multidisciplinary teams. Assess the patient for impairment and functional limitations, and be able to carry out all routine occupational therapy procedures in accordance with the evaluation.
- Able to independently operate and maintain the occupational therapy equipment used in patient treatment. Able to educate patients and caregivers about various occupational therapeutic interventions.

### GRADUATE ATTRIBUTES

Sr. No.	Attribute	Description
1.	Professional Knowledge	Learn science and develop your grasp of it to become a health care practitioner.
2.	Clinical / practical skills	Utilize clinical expertise to regulate and restrict access to high-quality medical treatment.
3.	Communication	Ability to work cooperatively and responsibly with multidisciplinary team members to deliver high-quality healthcare through the use of empathic and professional communication skills with patients, other healthcare professionals, and community members
4.	Corporation / Teamwork	the capacity to work cooperatively and responsibly with members of a multidisciplinary team to provide high-quality healthcare
5.	Professional ethics	the capacity to address ethical dilemmas and uphold moral principles in one's professional life
6.	Research innovation related skills	a spirit of inquiry and investigation with the capacity to raise concerns, review the available data, and apply it to clinical practice
7.	Critical taking and problem solving	being able to solve problems in real life by using critical thinking
8.	Reflective thinking	Use introspective thinking and a sense of social and cell awareness.
9.	information digital /	Think critically and keep an eye on the needs of each individual

	literacy	cell and society.
10.	Multicultural competence	the capacity to interact and react in a multicultural culture
11.	Lifelong learning	Using self-paced and self-directed learning geared toward personal development, achieving economic, social, and cultural goals, and adapting to the demands of the workplace through knowledge-skill development/reskilling, demonstrate the ability to acquire knowledge and skills that are necessary for participating in learning activities throughout life.

**2. TITLE OF THE PROGRAM:** Bachelor of Occupational Therapy (**B.O.T.**)

**3. DURATION OF THE COURSE:** The duration of the Bachelor of Occupational Therapy Course (B.O.T.) shall include (8) eight semesters in (4) four academic years and a (6) six months compulsory rotatory Internship.

**4. MEDIUM OF INSTRUCTION:** English shall be the medium of instruction.

**5. ELIGIBILITY FOR ADMISSION:**

- Candidate should have passed 10+2 (12th standard) or equivalent examination with science stream i.e., Physics, Chemistry, Biology and English with 45% marks in the aggregate of all the subjects prescribed for the examination for general and 40% for reserved candidate.
- Candidate should have completed the minimum age of 17 years as on 31st December of the year of admission to B.O.T. first year course.
- Every candidate before admission shall furnish a certificate of medical fitness from an authorized Government Medical Officer that the candidate is physically fit to undertake the Occupational Therapy course.
- Selection of the candidate shall be on the basis of merit of 10+2 examination or Joint Entrance Examination conducted by the University.
- In case of 2 years Diploma Holder of Occupational Therapy, candidate will get admission in BOT IV Semester and will complete the BOT course as per MGUMST, Jaipur norms, subject to availability of vacant seat (s).
- In case of 3 years Diploma Holder of Occupational Therapy, candidate will get admission in BOT VI Semester and will complete the BOT course as per the MGUMST, Jaipur norms, subject to availability of vacant seat(s).

**6. PROCESS OF ADMISSION:**

Admission to BOT Program shall be made on the basis of written entrance examination conducted by the university for the purpose.

**7. RESERVATION POLICY:**

Reservation in admissions shall be applicable as per policy of the State Government.

**8. ENROLMENT:**

Every candidate who is admitted to Bachelor of Occupational Therapy Degree Program in Mahatma Gandhi Occupational Therapy College shall be required to get himself/herself enrolled with the Mahatma Gandhi University of Medical Sciences & Technology (MGUMST) after paying the prescribed eligibility and enrolment fees.

A candidate shall deposit enrolment fees along with tuition fees at the time of his/her admission to the course. Such a candidate who fails to submit, to the college Principal, duly filled enrolment form along with original documents including migration certificate required for enrolment within prescribed period then after he/she shall pay late fee applicable at that time. No student will be allowed to appear in the university examination without his/her enrollment.

#### **9. ATTENDANCE:**

No candidate shall be permitted to appear in B.O.T Semester I/II/III/IV/V/VI/VII/VIII respectively university examination unless he/she has attended the course for the prescribed period and produces the necessary certificate of attendance and satisfactory conduct from the Principal of the College.

A candidate is required to compulsorily attend 75% of the theory classes and also 75% of the practical classes held semester in each of the prescribed subject (s) separately, those not fulfilling the above criteria will not be eligible to appear for the university examination in the concerned subject(s)

#### **10. WORKING DAYS:**

Each semester shall consist of not less than 130 working days including examination.

**11. CONDUCTION OF THE UNIVERSITY EXAMINATION:** University semester examination shall be conducted twice in a year; with an interval of six month. Even semester examination shall be conducted after 6 month of odd semester examination.

#### **12. ELIGIBILITY TO APPEAR FOR UNIVERSITY EXAMINATION**

- Candidates having 75% attendance and obtaining the minimum 40% marks in internal assessment in each course to qualify for appearing in the end-semester End of Semester Examination (EoSE).
- The students desirous of appearing for university examination shall submit the application form duly filled online along with the prescribed examination fee.
- Incomplete application forms or application forms submitted without prescribed fee or application form submitted after due date will be rejected and student shall not be allowed to appear for examination.
- If a student fails either in theory or in practical, he/ she has to re-appear for both the examination. (Theory & Practical)
- A candidate will have to clear all the subjects of First to Seventh semester before appearing at eighth semester university examination.

#### **13. APPOINTMENT OF EXAMINER & PAPER SETTER**

**ALL THE EXAMINERS** - Paper Setters, Theory examination answer books evaluators, Internal and External Examiners for Practical examinations shall be appointed by the President of the University from the panel submitted by Principal/HOD/Convener of the respective COC through concerned dean of faculty.

Paper setters shall be external, who will assess answer books of their respective paper.

**QUALIFICATION OF THE PAPER SETTER / EXAMINER:** Professor/ Associate Professor/ Assistant Professor/ lecturer/ having PG qualification with 3 years teaching experience after PG in respective fields is eligible to act as internal/external examiners of theory/practical examination for occupational therapy papers and for medical papers the examiner should have 3 years of teaching experience after doing post- graduate qualification in the relevant/ broad specialty, or Master Degree (MOT) in specialty concerned may be allowed. Distance Education Degree holder cannot work as the faculty or Examiner.

#### **14. SCHEME OF EXAMINATION:**

##### **A. Theory Examination:**

###### **Continuous Assessment (CA)**

- There shall be two Internal Assessment Examinations in each semester in theory at the college level. These shall carry 30% of total marks assigned to Theory Examination.
- Candidates failing to secure 40% marks in the aggregate of two internal assessment tests in any subject shall not be allowed to appear in concerned subject (s) in the ensuing university semester examination.

###### **University Examination:**

At the end of every academic semester, after completion of the course of study there shall be University end Semester theory examination. These shall carry 70% of total marks assigned to Theory Examination.

##### **B. Practical Examination:**

###### **Continuous Assessment (CA)**

- There shall be two Internal Assessment Examinations in each semester in practical at the college level. These shall carry 30% of total marks assigned to practical examination.
- Candidates failing to secure 40% marks in the aggregate of two internal assessment tests in any subject shall not be allowed to appear in concerned subject (s) in the ensuing university semester examination.

###### **University Examination: (End of Semester Examination (EoSE))**

At the end of every academic semester, after completion of the course of study there shall be University end Semester practical examination. These shall carry 70% of total marks assigned to practical examination.

###### **Practical Pattern for BOT End of Semester Examination (EoSE)**

###### **(Paper Carrying 70 marks)**

<b>Practical</b>	<b>No. of Case</b>	<b>Marks</b>	<b>Total Marks</b>
Long case	1	25	25
Short case	1	10	10
Practical Record	-	10	10
Viva	-	25	25
<b>Total Marks</b>			<b>70</b>



### **Duration, Distribution of marks and Pattern of Question papers**

1. The question paper shall cover the entire syllabus of the subject of that semester.
2. Duration of Examination: Each written paper of University semester examination will be of 70 marks and shall be of 3 hours duration.

### **Pattern of question papers:**

All questions shall be required to be attempted. There may be internal choice(s) in the questions.

### **Theory Question Paper Pattern for BOT Semester Examinations (Paper carrying 70 marks)**

All questions shall be required to be attempted. There may be internal choice(s) in the questions.

<b>Question Type</b>	<b>Total No of Questions</b>	<b>Questions Need to be attempted</b>	<b>Marks per Question</b>	<b>Total Marks</b>
Long answer Essay Type questions	6	4	10	40
Short answer questions	8	6	5	30
<b>Total Marks</b>	-	-	-	<b>70</b>

### **Practical Pattern for BOT End of Semester Examination (EoSE) (Paper Carrying 70 marks)**

<b>Practical</b>	<b>No. of Case</b>	<b>Marks</b>	<b>Total Marks</b>
Long case	1	25	25
Short case	1	10	10
Practical Record	-	10	10
Viva	-	25	25
<b>Total Marks</b>			<b>70</b>

### **15. RESULT:**

- In order to pass an examination a candidate must secure 50% marks in theory (inclusive of internal assessment) and practical (inclusive of internal assessment) separately in each subject.
- A candidate who has failed in paper will reappear in respective paper in next semester examination of the same semester next year
- A candidate who has failed in theory and practical examination (Both) or any one theory and practical examination failed then candidate must be reappear in next semester examination theory and practical both.
- A successful candidate appearing in whole examination in the first attempt and obtaining 75% or more marks in the aggregate of a subject shall be declared to have passed the subject with distinction.

## 16. SUPPLEMENTARY EXAMINATION:

There shall be a supplementary examination allow only in VIII semester. The supplementary examination conducted within two months of the declaration of the result VIII Semester examination

## 17. REVALUATION/SCRUTINY

Re-evaluation of Theory paper answer books and scrutiny of marks shall be permissible as per University Rules.

Permission for revaluation / scrutiny

1. In 1<sup>st</sup> Attempt – Revaluation shall be permitted in 25% of the appeared papers. Scrutiny shall be permitted for all the papers.
2. In 2<sup>nd</sup> Attempt – Only scrutiny shall be permitted in all the papers. Revaluation shall not be permitted.
3. Revaluation shall also be permitted in 25% of such papers in which a candidate appears for the 1<sup>st</sup> time irrespective of his attempt in the whole examination.
4. For determining the attempt, following criteria shall be followed –

S. No.	Situation	Attempt in next examination	
1.	Candidate is detained in all subjects	His attempt in all the subjects in the next examination will be treated as	1 <sup>st</sup> Attempt
2.	Candidate permitted in all subjects but did not appear in all permitted subjects	His attempt in the next examination will be treated as	1 <sup>st</sup> Attempt
3.	Candidate is detained in one / few subjects Permitted for the rest of the subjects Appeared in permitted subjects	His attempt in the detained subject(s) in the next examination will be treated as	2 <sup>nd</sup> Attempt
4.	Candidate is detained in one / few subjects Permitted in the rest of the subjects Did not appear in the permitted subjects	His attempt in the next examination In detained subject(s) will be treated as In permitted subject(s) will be treated as	1 <sup>st</sup> Attempt
5.	Candidate permitted in all subjects But did not appear in few subjects	His attempt in the permitted subjects in the next examination will be treated as	2 <sup>nd</sup> Attempt

## 18. PROMOTION TO THE NEXT SEMESTER

- A candidate who has passed or failed in one or more subjects shall be promoted to respective next semester.
- A candidate will be allowed to appear for the VIII semester examination only when the backlog of all papers (theory papers and practical) of I semester to VII semester exams including elective papers (if any) is cleared.
- The student is required to clear all the End of Semester Examination within 8 years from the year of joining of the Program otherwise he/she will have to leave the course.

## 19. AUTHORITY FOR ISSUE OF INTERNSHIP COMPLETION CERTIFICATE:

The Head of Institution shall issue a certificate of successful completion of 6 month

rotating internship to each candidate after satisfying that the candidate has completed the training program and has acquired the skills to function independently.

## 20. AWARDS OF DEGREE

The degree shall be awarded by the University only after submission of Internship completion certificate with No dues and application forwarded to the university by the Principal of the College.

## 21. LETTER GRADES AND GRADE POINTS

LETTER GRADE	GRADE	PERCENTAGE OF MARKS
O (Outstanding)	10	100 %
A+ (Excellent)	9	90-99.99 %
A (Very Good)	8	80-89.99 %
B+(Good)	7	70-79.99 %
B (Above Average)	6	60-69.99 %
C (Average)	5	50-59.99 %
F (Fail)	0	0 Less than 50 %
Ab (Absent)	0	0 Absent

## 22. GRADES QUALIFYING FOR PASS:

Theory and Practical Examination

**1. Minimum 5 Grade** in the university examination and **5 Grade** in internal assessment evaluated by the department are required to pass **who fails to obtain 5 Grade shall be declared failed.**

**2.** A student obtaining **Grade F** shall be considered **failed** and will be required to reappear in the examination.

**3.** Letter Grade **Ab (Absent)** will be showing the absent of the candidate in examination and will be required to reappear in the examination.

## 23. CREDIT WEIGHTAGE DISTRIBUTION (%)

Item	Credit Weight (%)
<b>Internal Assessment</b>	
Class participation/presentation, study records	10.00%
Assignment, quizzes and summer training report	10.00%
Departmental Postings, case studies, project reports	10.00%
<b>University Exam</b>	
	70.00%
<b>Total</b>	<b>100%</b>

## 24. AUTHORITY TO ISSUE TRANSCRIPT

The controller of Examination of the university shall be the authority for issuing transcript after receiving the prescribed fees from the candidate.

## 25. WORKING HOURS/DAYS

<b>Duration</b>	<b>4 Years (8 Semesters)</b>
Working Days	6 Days in A Week
Working Hours	36 Hours in A Week
<b>Duration of Internship</b>	<b>6 Months Internship (1 Semesters)</b>
Working Days	180 days in 6 months
Working Hours	1260r in 180 days

## 26. TYPES OF COURSES IN BOT: -

**1.Core Course**-course designed under this category aim to cover the basics that a student is expected to imbibe in the discipline of B.O. T. A course, which should compulsorily be studied by a candidate as a core requirement is termed as a Core course.

**2.Elective Course**-it is a course which can be chosen from a pool of courses it is specific or specialized or advanced or supportive to the discipline of B.O.T Students have to **CHOOSE ANY ONE COURSE IN EACH SEMSTER** from the pool of course given to that semester.

**3. Ability Enhancement Courses (AEC) /Practical:** The Ability Enhancement (AE) Courses or practical are the courses based upon the content that leads to Knowledge enhancement. They are skill-based and are aimed at providing hands-on-training, competencies, skills, etc.

## 27. COMPUTATION OF SGPA AND CGPA

- 1) The UGC recommends the following procedure to compute the Semester Grade Point average (SGPA) and Cumulative Grade Point Average (CGPA):
- 2) The SGPA is the ratio of sum of the product of the number of credits with the grade points scored by a student in all the courses taken by a student and the sum of the number of credits of all the courses undergone by a student, i.e  
$$\text{SGPA (Si)} = \frac{\sum(C_i \times G_i)}{\sum C_i}$$
- 3) where  $C_i$  is the number of credits of the course and  $G_i$  is the grade point scored by the student in the course.
- 4) The CGPA is also calculated in the same manner taking into account all the courses undergone by a student over all the semesters of a program, i.e.  
$$\text{CGPA} = \frac{\sum(C_i \times S_i)}{\sum C_i}$$
- 5) where  $S_i$  is the SGPA of the semester and  $C_i$  is the total number of credits in that semester.

The SGPA and CGPA shall be rounded off to 2 decimal points and reported in the transcript.

Illustration of Computation of SGPA and CGPA and Format for Transcripts

Computation of SGPA and CGPA  
**Illustration for SGPA**

Course	Credit	Gradeletter	Grade point	Credit Point (Credit x Grade)
Course 1	7	A	8	7 X 8 = 56
Course 2	7	B+	7	7 X 7 = 49
Course 3	8	B	6	8 X 6 = 48
Course 4	3	O	10	3 X 10 = 30
	<b>25</b>			<b>183</b>

Thus, **SGPA = 183/25 = 7.32**

**ILLUSTRATION FOR CGPA**

Semester 1	Semester 2	Semester 3	Semester 4
Credit: 25 SGPA: 7.32	Credit: 25 SGPA: 7.32	Credit: 25 SGPA: 7.32	Credit: 25 SGPA: 7.32
Semester 5	Semester 6	Semester 7	Semester 8
Credit: 25 SGPA: 7.32	Credit: 25 SGPA: 7.32	Credit: 25 SGPA: 7.32	Credit: 25 SGPA: 7.32

Thus, **CGPA =  $\frac{25 \times 7.32 + 25 \times 7.32 + 25 \times 7.32 + 25 \times 7.32 + 25 \times 7.32 + 25 \times 7.32 + 25 \times 7.32 + 25 \times 7.32}{200} = 6.40$**

## Marks Distribution

### B.O.T. (I- Semester) Examination

Theory Core Course					
Paper Code	Subject	Credit	Semester University Exam	Internal Exam	Total Marks
<b>BOT23S101</b>	Human Anatomy-I (CT)	3	70	30	100
<b>BOT23S102</b>	Human Physiology-I (CT)	3	70	30	100
<b>BOT23S103</b>	Introduction to Occupational Therapy (CT)	4	70	30	100
<b>BOT23S104</b>	Sociology	2	70	30	100
<b>Total</b>		<b>12</b>	<b>280</b>	<b>120</b>	<b>400</b>
Practical Core Course					
Paper Code	Subject	Credit	Semester University Exam	Internal Exam	Total Marks
<b>BOT23S101P</b>	Human Anatomy-I (CP)	3	70	30	100
<b>BOT23S102P</b>	Human Physiology-I (CP)	3	70	30	100
<b>BOT23S103P</b>	Introduction to Occupational Therapy (CP)	5	70	30	100
<b>Total</b>		<b>11</b>	<b>210</b>	<b>90</b>	<b>300</b>
Elective Course (Elect any one)					
Paper Code	Subject	Credit	Semester University Exam	Internal Exam	Total Marks
<b>BOT23S105</b>	Basic Computer (CT)	2	70	30	100
<b>BOT23S106</b>	English (CT)		70	30	100
<b>BOT23S107</b>	Yoga Therapy (CT)		70	30	100
<b>Total</b>		<b>2</b>	<b>70</b>	<b>30</b>	<b>100</b>

	Credit	Semester University Exam	Internal Exam	Total Marks
<b>Grand Total</b>	<b>25</b>	<b>560</b>	<b>240</b>	<b>800</b>

## B.O.T. (II- Semester) Examination

<b>Theory Core Course</b>					
Paper Code	Subject	Credit	Semester University Exam	Internal Exam	Total Marks
BOT23S201	Human Anatomy-II (CT)	3	70	30	100
BOT23S202	Human Physiology-II (CT)	3	70	30	100
BOT23S203	Basics of Occupational Therapy Assessment (CT)	4	70	30	100
BOT23S204	Psychology	2	70	30	100
<b>Total</b>		<b>12</b>	<b>280</b>	<b>120</b>	<b>400</b>
<b>Practical Core Course</b>					
Paper Code	Subject	Credit	Semester University Exam	Internal Exam	Total Marks
BOT23S201P	Human Anatomy-II (CP)	3	70	30	100
BOT23S202P	Human Physiology-II (CP)	3	70	30	100
BOT23S203P	Basics of Occupational Therapy Assessment (CP)	5	70	30	100
<b>Total</b>		<b>11</b>	<b>210</b>	<b>90</b>	<b>300</b>
<b>Elective Course (Elect any one)</b>					
Paper Code	Subject	Credit	Semester University Exam	Internal Exam	Total Marks
BOT23S205	Disaster Management (CT)	2	70	30	100
BOT23S206	Environmental Sciences (CT)		70	30	100
BOT23S207	Biochemistry (CT)		70	30	100
<b>Total</b>		<b>2</b>	<b>70</b>	<b>30</b>	<b>100</b>

	Credit	Semester University Exam	Internal Exam	Total Marks
<b>Grand Total</b>	<b>25</b>	<b>560</b>	<b>240</b>	<b>800</b>

### B.O.T. (III- Semester) Examination

<b>Theory Core Course</b>					
Paper Code	Subject	Credit	Semester University Exam	Internal Exam	Total Marks
<b>BOT23S301</b>	Pathology (CT)	4	70	30	100
<b>BOT23S302</b>	Microbiology (CT)	4	70	30	100
<b>BOT23S303</b>	Biomechanics & Kinesiology – I (CT)	4	70	30	100
<b>BOT23S304</b>	Occupational Science (CT)	6	70	30	100
<b>Total</b>		<b>18</b>	<b>280</b>	<b>120</b>	<b>400</b>
<b>Practical Core Course</b>					
Paper Code	Subject	Credit	Semester University Exam	Internal Exam	Total Marks
<b>BOT23S304P</b>	Occupational Science (CP)	5	70	30	100
<b>Total</b>		<b>5</b>	<b>70</b>	<b>30</b>	<b>100</b>
<b>Elective Course (Elect any one)</b>					
Paper Code	Subject	Credit	Semester University Exam	Internal Exam	Total Marks
<b>BOT23S305</b>	Health Care (CT)	2	70	30	100
<b>BOT23S306</b>	Infection Prevention & Control (CT)		70	30	100
<b>BOT23S307</b>	Medical Record Science (CT)		70	30	100
<b>Total</b>		<b>2</b>	<b>70</b>	<b>30</b>	<b>100</b>

	Credit	Semester University Exam	Internal Exam	Total Marks
<b>Grand Total</b>	<b>25</b>	<b>420</b>	<b>180</b>	<b>600</b>



### B.O.T. (IV- Semester) Examination

<b>Theory Core Course</b>					
Paper Code	Subject	Credit	Semester University Exam	Internal Exam	Total Marks
BOT23S401	Pharmacology (CT)	4	70	30	100
BOT23S402	Biomechanics and Kinesiology – II (CT)	4	70	30	100
BOT23S403	Community Medicine (CT)	4	70	30	100
BOT23S404	Therapeutic Activities and Exercises (CT)	6	70	30	100
<b>Total</b>		<b>18</b>	<b>280</b>	<b>120</b>	<b>400</b>
<b>Practical Core Course</b>					
Paper Code	Subject	Credit	Semester University Exam	Internal Exam	Total Marks
BOT23S404P	Therapeutic Activities and Exercises (CP)	5	70	30	100
<b>Total</b>		<b>5</b>	<b>70</b>	<b>30</b>	<b>100</b>
<b>Elective Course (Elect any one)</b>					
Paper Code	Subject	Credit	Semester University Exam	Internal Exam	Total Marks
BOT23S405	Community Health (CT)	2	70	30	100
BOT23S406	First Aid & Emergency Help (CT)		70	30	100
BOT23S407	Visualization and Media Design (CT)		70	30	100
<b>Total</b>		<b>2</b>	<b>70</b>	<b>30</b>	<b>100</b>

	Credit	Semester University Exam	Internal Exam	Total Marks
<b>Grand Total</b>	<b>25</b>	<b>420</b>	<b>180</b>	<b>600</b>

### B.O.T. (V- Semester) Examination

<b>Theory Core Course</b>					
Paper Code	Subject	Credit	Semester University Exam	Internal Exam	Total Marks
BOT23S501	Clinical Orthopedics – I (CT)	4	70	30	100
BOT23S502	General Medicine (CT)	4	70	30	100
BOT23S503	Rehabilitation Medicine -I (CT)	4	70	30	100
BOT23S504	Occupational Therapy in Orthopedics (CT)	6	70	30	100
<b>Total</b>		<b>18</b>	<b>280</b>	<b>120</b>	<b>400</b>
<b>Practical Core Course</b>					
Paper Code	Subject	Credit	Semester University Exam	Internal Exam	Total Marks
BOT23S504P	Occupational Therapy in Orthopedics (CP)	5	70	30	100
<b>Total</b>		<b>5</b>	<b>70</b>	<b>30</b>	<b>100</b>
<b>Elective Course (Elect any one)</b>					
Paper Code	Subject	Credit	Semester University Exam	Internal Exam	Total Marks
BOT23S505	Financial Management and Banking (CT)	2	70	30	100
BOT23S506	Teaching Learning Process (CT)	2	70	30	100
BOT23S507	Gender Sensitization (CT)	2	70	30	100
<b>Total</b>		<b>2</b>	<b>70</b>	<b>30</b>	<b>100</b>

	Credit	Semester University Exam	Internal Exam	Total Marks
<b>Grand Total</b>	<b>25</b>	<b>420</b>	<b>180</b>	<b>600</b>

**B.O.T. (VI- Semester) Examination**

<b>Theory Core Course</b>					
<b>Paper Code</b>	<b>Subject</b>	<b>Credit</b>	<b>Semester University Exam</b>	<b>Internal Exam</b>	<b>Total Marks</b>
<b>BOT23S601</b>	Clinical Orthopedics – II (CT)	3	70	30	100
<b>BOT23S602</b>	Clinical Pediatrics-(CT)	4	70	30	100
<b>BOT23S603</b>	Rehabilitation Medicine-II (CT)	4	70	30	100
<b>BOT23S604</b>	Occupational Therapy in Pediatrics (CT)	4	70	30	100
<b>Total</b>		<b>15</b>	<b>280</b>	<b>120</b>	<b>400</b>
<b>Practical Core Course</b>					
<b>Paper Code</b>	<b>Subject</b>	<b>Credit</b>	<b>Semester University Exam</b>	<b>Internal Exam</b>	<b>Total Marks</b>
<b>BOT23S604P</b>	Occupational Therapy in Pediatrics (CP)	8	70	30	100
<b>Total</b>		<b>8</b>	<b>70</b>	<b>30</b>	<b>100</b>
<b>Elective Course (Elect any one)</b>					
<b>Paper Code</b>	<b>Subject</b>	<b>Credit</b>	<b>Semester University Exam</b>	<b>Internal Exam</b>	<b>Total Marks</b>
<b>BOT23S605</b>	Constitution of India (CT)	2	70	30	100
<b>BOT23S606</b>	Universal Human Values (CT)		70	30	100
<b>BOT23S607</b>	Professionalism and values (CT)		70	30	100
<b>Total</b>		<b>2</b>	<b>70</b>	<b>30</b>	<b>100</b>

	<b>Credit</b>	<b>Semester University Exam</b>	<b>Internal Exam</b>	<b>Total Marks</b>
<b>Grand Total</b>	<b>25</b>	<b>420</b>	<b>180</b>	<b>600</b>

### B.O.T. (VII- Semester) Examination

<b>Theory Core Course</b>					
Paper Code	Subject	Credit	Semester University Exam	Internal Exam	Total Marks
BOT23S701	Clinical Neurology (CT)	3	70	30	100
BOT23S702	General Surgery including Plastic Surgery and CTVS	3	70	30	100
BOT23S703	Occupational Therapy in Neurology and Neurosurgery (CT)	4	70	30	100
BOT23S704	Occupational Therapy in Medical & Surgical Condition (CT)	4	70	30	100
<b>Total</b>		<b>14</b>	<b>280</b>	<b>120</b>	<b>400</b>
<b>Practical Core Course</b>					
Paper Code	Subject	Credit	Semester University Exam	Internal Exam	Total Marks
BOT23S703P	Occupational Therapy in Neurology and Neurosurgery (CP)	5	70	30	100
BOT23S704P	Occupational Therapy in Medical & Surgical Condition (CP)	4	70	30	100
<b>Total</b>		<b>9</b>	<b>140</b>	<b>60</b>	<b>200</b>
<b>Elective Course (Elect any one)</b>					
Paper Code	Subject	Credit	Semester University Exam	Internal Exam	Total Marks
BOT23S705	Obs & Gynae (CT)	2	70	30	100
BOT23S706	Yoga Intervention in Geriatric Disorder (CT)		70	30	100
BOT23S706	Yoga Intervention in Gynecology Disorder (CT)		70	30	100
<b>Total</b>		<b>2</b>	<b>70</b>	<b>30</b>	<b>100</b>

	Credit	Semester University Exam	Internal Exam	Total Marks
<b>Grand Total</b>	<b>25</b>	<b>420</b>	<b>180</b>	<b>600</b>

**B.O.T. (VIII- Semester) Examination Core Course**

<b>Theory Core Course</b>					
<b>Paper Code</b>	<b>Subject</b>	<b>Credit</b>	<b>Semester University Exam</b>	<b>Internal Exam</b>	<b>Total Marks</b>
<b>BOT23S801</b>	Clinical Neurosurgery (CT)	4	70	30	100
<b>BOT23S802</b>	Psychiatry (CT)	3	70	30	100
<b>BOT23S803</b>	Advance Occupational Therapy in Rehabilitation (CT)	4	70	30	100
<b>BOT23S804</b>	Occupational Therapy in Mental Health (CT)	4	70	30	100
<b>BOT23S804</b>	Research Methodology and Biostatistics (NUE)	3	70	30	100
<b>Total</b>		<b>18</b>	<b>350</b>	<b>150</b>	<b>500</b>
<b>Practical Core Course</b>					
<b>Paper Code</b>	<b>Subject</b>	<b>Credit</b>	<b>Semester University Exam</b>	<b>Internal Exam</b>	<b>Total Marks</b>
<b>BOT23S804P</b>	Occupational Therapy in Mental Health (CP)	5	70	30	100
<b>Total</b>		<b>5</b>	<b>70</b>	<b>30</b>	<b>100</b>
<b>Elective Course (Elect any one)</b>					
<b>Paper Code</b>	<b>Subject</b>	<b>Credit</b>	<b>Semester University Exam</b>	<b>Internal Exam</b>	<b>Total Marks</b>
<b>BOT23S805</b>	Pulmonary Function Test (CT)	2	70	30	100
<b>BOT23S806</b>	Clinical Nutrition (CT)		70	30	100
<b>BOT23S807</b>	Yoga Intervention in Psychiatric Conditions (CT)		70	30	100
<b>Total</b>		<b>2</b>	<b>70</b>	<b>30</b>	<b>100</b>

	<b>Credit</b>	<b>Semester University Exam</b>	<b>Internal Exam</b>	<b>Total Marks</b>
<b>Grand Total</b>	<b>25</b>	<b>490</b>	<b>210</b>	<b>700</b>

## Recommended Teaching Hours of Instruction for each subject

### B.O.T. (I- Semester) Examination Core Course

S No	Subject	Theory	Practical	Total Hours	Credit	Hours/Week
1.	Human Anatomy-I (CT)	60	-	60	3	3
2.	Human Anatomy-I (CP)	-	120	120	3	5
3.	Human Physiology-I (CT)	60	-	60	3	3
4.	Human Physiology-I (CP)	-	120	120	3	5
5.	Introduction to Occupational Therapy (CT)	80	-	80	4	4
6.	Introduction to Occupational Therapy (CP)	-	200	200	5	10
7.	Sociology	40	-	40	2	2
<b>Total</b>		<b>240</b>	<b>440</b>	<b>680</b>	<b>23</b>	<b>32</b>

### Elective Course (Elect any one)

S No	Subject	Theory	Practical	Total Hours	Credit	Hours/Week
1.	Basic Computer (CT)	45	-	45	2	3
2.	English (CT)	45	-	45		
3.	Yoga Therapy (CT)	45	-	45		
<b>Total</b>		<b>45</b>	<b>-</b>	<b>45</b>	<b>2</b>	<b>3</b>

### B.O.T. (II- Semester) Examination Core Course

S No	Subject	Theory	Practical	Total	Credit	Hours/Week
1.	Human Anatomy-II (CT)	60	-	60	3	3
2.	Human Anatomy-II (CP)	-	120	120	3	5
3.	Human Physiology-II (CT)	60	-	60	3	3
4.	Human Physiology-II (CP)	-	120	120	3	5
5.	Basics of Occupational Therapy Assessment (CT)	80	-	80	4	4
6.	Basics of Occupational Therapy Assessment (CP)	-	200	200	5	10
7.	Psychology	40	-	40	2	2
<b>Total</b>		<b>240</b>	<b>440</b>	<b>680</b>	<b>23</b>	<b>32</b>

**Elective Course (Elect any one)**

S No	Subject	Theory	Practical	Total Hours	Credit	Hours/Week
1.	Disaster Management (CT)	45	-	45	2	3
2.	Environmental Studies (CT)	45	-	45		
3.	Biochemistry (CT)	45	-	45		
	<b>Total</b>	<b>45</b>	<b>-</b>	<b>45</b>	<b>2</b>	<b>3</b>

**B.O.T. (III- Semester) Examination Core Course**

S No	Subject	Theory	Practical	Total	Credit	Hours/Week
1	Pathology (CT)	80	-	80	4	4
2	Microbiology (CT)	80	-	80	4	4
3	Biomechanics & Kinesiology – I (CT)	80	-	80	4	4
4	Occupational Science (CT)	120	-	120	6	5
5	Occupational Science (CP)	-	200	200	5	10
	<b>Total</b>	<b>360</b>	<b>200</b>	<b>560</b>	<b>23</b>	<b>27</b>

**Elective Course (Elect any one)**

S No	Subject	Theory	Practical	Total	Credit	Hours/Week
1	Health care (CT)	45	-	45	2	3
2	Infection Prevention & Control (CT)	45	-	45		
3	Medical Record Science (CT)	45	-	45		
	<b>Total</b>	<b>45</b>	<b>-</b>	<b>45</b>	<b>2</b>	<b>3</b>

**B.O.T. (IV- Semester) Examination Core Course**

S No	Subject	Theory	Practical	Total	Credit	Hours/Week
1	Pharmacology (CT)	80	-	80	4	4
2	Biomechanics and Kinesiology – II (CT)	80	-	80	4	4
3	Community Medicine (CT)	80	-	80	4	4
4	Therapeutic Activities and Exercises (CT)	120	-	120	6	5
5	Therapeutic Activities and Exercises (CP)	--	200	200	5	10
	<b>Total</b>	<b>360</b>	<b>200</b>	<b>560</b>	<b>23</b>	<b>27</b>

**Elective Course (Elect any one)**

S No	Subject	Theory	Practical	Total	Credit	Hours/Week
1	Community Health (CT)	45	-	45	2	3
2	First Aid & Emergency Help (CT)	45	-	45		
3	Visualization and Media Design (CT)	45	-	45		
	<b>Total</b>	<b>45</b>	<b>-</b>	<b>45</b>	<b>2</b>	<b>3</b>

**B.O.T. (V- Semester) Examination Core Course**

S No	Subject	Theory	Practical	Total	Credit	Hours/Week
1	Clinical Orthopedics – I (CT)	80	-	80	4	4
2	General Medicine (CT)	80	-	80	4	4
3	Rehabilitation Medicine -I (CT)	80	-	80	4	4
4	Occupational Therapy in Orthopedics (CT)	80	-	80	4	4
5	Occupational Therapy in Orthopedics (CP)	-	200	200	5	10
6	Supervise Clinical Training	-	120	120	2	5
	<b>Total</b>	<b>320</b>	<b>320</b>	<b>640</b>	<b>23</b>	<b>31</b>

**Elective Course (Elect any one)**

S No	Subject	Theory	Practical	Total	Credit	Hours/Week
1	Financial Management and Banking (CT)	45	-	45	2	3
2	Teaching Learning Process (CT)	45	-	45		
3	Gender Sensitization (CT)	45	-	45		
	<b>Total</b>	<b>45</b>	<b>-</b>	<b>45</b>	<b>2</b>	<b>3</b>

**B.O.T. (VI- Semester) Examination Core Course**

S No	Subject	Theory	Practical	Total	Credit	Hours/Week
1	Clinical Orthopedics – I (CT)	60	-	60	3	3
2	Clinical Pediatrics-(CT)	80	-	80	4	4
3	Rehabilitation Medicine-II (CT)	80	-	80	4	4
4	Occupational Therapy in Pediatrics (CT)	80	-	80	4	4
5	Occupational Therapy in Pediatrics (CP)	-	200	200	5	10
6	Supervise Clinical Training	-	180	180	3	8
	<b>Total</b>	<b>300</b>	<b>380</b>	<b>680</b>	<b>23</b>	<b>33</b>

**Elective Course (Elect any one)**

S No	Subject	Theory	Practical	Total	Credit	Hours/Week
1	Constitution of India (CT)	45	-	45	2	3
2	Universal Human Values (CT)	45	-	45		
3	Professionalism and values (CT)	45	-	45		
	<b>Total</b>	<b>45</b>	<b>-</b>	<b>45</b>	<b>2</b>	<b>3</b>



**B.O.T. (VII- Semester) Examination Core Course**

S No	Subject	Theory	Practical	Total	Credit	Hours/Week
1	Clinical Neurology (CT)	60	-	60	3	3
2	General Surgery Including Plastic Surgery & CTVS (CT)	60	-	60	3	3
3	Occupational Therapy in Neurology and Neurosurgery (CT)	80	-	80	4	4
4	Occupational Therapy in Neurology and Neurosurgery (CP)	-	200	200	5	10
5	Occupational Therapy in Medical & Surgical Condition (CT)	80	-	80	4	4
6	Occupational Therapy in Medical & Surgical Condition (CP)	-	160	160	4	8
	<b>Total</b>	<b>280</b>	<b>360</b>	<b>640</b>	<b>23</b>	<b>32</b>

**Elective Course (Elect any one)**

S No	Subject	Theory	Practical	Total	Credit	Hours/Week
1	Obs & Gynae (CT)	45	-	45	2	3
2	Yoga Intervention in Geriatric Disorder (CT)	45	-	45		
3	Yoga Intervention in Gynecology Disorder (CT)	45	-	45		
	<b>Total</b>	<b>45</b>	<b>-</b>	<b>45</b>	<b>2</b>	<b>3</b>

**B.O.T. (VIII- Semester) Examination Core Course**

S No	Subject	Theory	Practical	Total	Credit	Hours/Week
1	Clinical Neurosurgery (CT)	80	-	80	4	4
2	Psychiatry (CT)	60	-	60	3	3
3	Advance Occupational Therapy in Rehabilitation (CT)	80	-	80	4	4
4	Occupational Therapy in Mental Health (CT)	80	-	80	4	4
5	Occupational Therapy in Mental Health (CP)	-	200	200	5	10
6	Research Methodology and Biostatistics	60	-	60	3	3
	<b>Total</b>	<b>360</b>	<b>200</b>	<b>560</b>	<b>23</b>	<b>28</b>

**Elective Course (Elect any one)**

S No	Subject	Theory	Practical	Total	Credit	Hours/Week
1	Pulmonary Function Test (CT)	45	-	45	2	3
2	Clinical Nutrition (CT)	45	-	45		
3	Yoga Intervention in Psychiatric Conditions (CT)	45	-	45		
	<b>Total</b>	<b>45</b>	<b>-</b>	<b>45</b>	<b>2</b>	<b>3</b>

**Total Hours and credits**

<b>S. N</b>	<b>Particular</b>	<b>Hours</b>	<b>Credit</b>
1	Core Subjects Hours	5000	184
2	Elective Subject Hours	360	16
3	Internship	1260	18
	<b>Total</b>	<b>6620</b>	<b>218</b>

**B.O.T. (IX - Semester) Compulsory Rotatory Internship:**

<b>Sr. No</b>	<b>Clinical Posting</b>	<b>Days</b>	<b>Hours</b>	<b>Credit</b>
Core Clinical Training	Hand Therapy & Splint, Assistive Technology Unit	10	70	1
Core Clinical Training	Developmental & Sensory Integration Therapy Unit	20	140	2
Core Clinical Training	Cognitive Perceptual & Psychosocial Remedial Unit	20	140	2
Core Clinical Training	Pediatrics/PICU	20	140	2
Core Clinical Training	General Surgery, Cardio Thoracic Surgery,	10	70	1
Core Clinical Training	Burns & Plastic Surgery	20	140	2
Core Clinical Training	ICU/CCU/NICU,	20	140	2
Core Clinical Training	Cancer	10	70	1
Core Clinical Training	General Medicine & Obst. & Gynecology	20	140	2
Core Clinical Training	Psychiatry.	10	70	1
Research	Research Project Writing and Submission	20	140	2
	<b>Total</b>	<b>180</b>	<b>1260</b>	<b>18</b>

**Internship Rules:**

1. The intern will be eligible for 1-day casual leave in each month and can carry over the leave to next months, but he/she cannot avail the next month leave in advance.
2. The intern should conduct themselves in a manner befitting the profession.
3. The intern should dress appropriately in the clinical areas.
4. It is mandatory for the intern to wear the white apron with nametag when in the clinical area/ wards.
5. The intern can avail medical leave on producing a medical certificate, but will have to compensate for the number of days of absence from internship

## Semester – I

### Paper I- Human Anatomy

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Human Anatomy- I Theory</b>
<b>Course Code</b>	<b>BOT23S101</b>
<b>Course Description</b>	<b>Core Theory</b>
<b>Credit per Semester</b>	<b>3 credits</b>
<b>Hours per Semester</b>	<b>60</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Explain about anatomical aspects of muscles, bones, joints, their attachments of thorax and upper quadrant & to understand and discuss analysis of movements with respect to bones, joints and soft tissues related to musculoskeletal system of thorax, & upper extremity.
CO 2	Explain about structures of the cardio vascular & respiratory system, mechanism of respiration and the course of blood vessels, structure of rib cage & its contents with special emphasis to lungs, tracheo-bronchial tree, respiratory muscles & heart.
CO 3	Explain about source & course of major arterial, venous & lymphatic system, related to upper quadrant, thorax and heart.
CO 4	Explain about various structures of the genitor-urinary system, abdomen, pelvic organs and sense organs and apply knowledge to living anatomy.

#### COURSE OF STUDY

##### **General Anatomy:**

- (1) Cell: Parts, Name of Cytoplasmic organelles and inclusion with their Functions.
- (2) Epithelium: Types with examples and light microscopic structure.
- (3) Connective Tissue: Classification with emphasis to tendon and ligament.
- (4) Cartilage: Types with example.
- (5) Bone: Types with example, types of Ossification (Stage of Ossification not required).
- (6) Joints: Classification with example, emphasis to synovial joints.
- (7) Muscles: Types (details of EM picture not required).
- (8) Nervous tissue: Structure of a Neuron, Synapse Reflex arc, Degeneration and Regeneration of the Nerve, typical spinal nerve.

##### **Upper Extremity**

- (1) Pectoral region, Axilla, Brachial plexus, muscles of arm (front & back), muscles of forearm (front & back) palm (muscle, nerve, vessels) Synovial Bursae of hand and palmar spaces, nerves (axillary, median, ulnar, radial), Cutaneous distribution according to dermatomes, Related Clinical anatomy.
- (2) Joints: Shoulder girdle, shoulder, elbow, radial-ulnar, wrist, first carpo-metacarpal joints.

##### **Lower Extremity**

- (1) Front of thigh, femoral triangle, lumbar plexus, inguinal group of lymph Nodes, gluteal region, back of thigh, leg (anterior, lateral, posterior compartments) foot (dorsum, plantar), Venous drainage of inferior Extremity, Nerve and their distribution (femoral, sciatic, tibial, common peroneal, obturator), Arches of foot, Cutaneous distribution according to dermatomes, Related clinical Anatomy.

(2) Joint, hip, knee, ankle, sub-talar & mid-tarsal joints.

## THORAX

- 1) Cardio – Vascular System
  - a) Mediastinum: Divisions and contents
  - b) blood Supply and nerve supply of the heart; names of the blood vessels and their distribution in the body – region wise.
- 2) Diaphragm: Origin, insertion, nerve supply and action, openings in the diaphragm.
- 3) Intercostal muscles and Accessory muscles of respiration: Origin, insertion, nerve supply and action.

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Human Anatomy- I Practical</b>
<b>Course Code</b>	<b>BOT23S101P</b>
<b>Course Description</b>	<b>Core Practical</b>
<b>Credit per Semester</b>	<b>3 credits</b>
<b>Hours per Semester</b>	<b>120</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Identify anatomical aspects of muscles, bones, joints, their attachments of thorax and upper quadrant & to understand and discuss analysis of movements with respect to bones, joints and soft tissues related to musculoskeletal system of thorax, & upper extremity.
CO 2	Spot structures of the cardio vascular & respiratory system, mechanism of respiration and the course of blood vessels, structure of rib cage & its contents with special emphasis to lungs, tracheo-bronchial tree, respiratory muscles & heart.
CO 3	Identify source & course of major arterial, venous & lymphatic system, related to upper quadrant, thorax and heart.
CO 4	Identify various structures of the genitor-urinary system, abdomen and pelvic organs and apply knowledge to living anatomy.
CO 5	Demonstrate the movements of various joints, name and identify the origin/insertion, nerve /blood supply, root value & function of various skeletal muscles (upper extremity, abdominal wall & pelvic floor) with special emphasis to extremities, find various surface land-marks.

### Practical / viva

#### Upper Extremity

- (1) Demonstrations on dissected specimens of upper limb.
- (2) Osteology: clavicle, scapula, humerus, radius, ulna, articulated hand, order of carpal bones.
- (3) Surface anatomy

#### Lower Extremity

- (1) Demonstration on dissected specimens of lower limb
- (2) Osteology: Hip bone, femur, tibia, fibula, articulated foot (Identification of tarsal and major muscle attachments).
- (3) Surface Anatomy

#### Thorax

- (1) Demonstration on cadaver of thoracic wall, mediastinal structure, Heart, Lungs.
- (2) Osteology: Sternum, Ribs (only general features), Thoracic Vertebrae (Identification, general features)

## Paper-II – HUMAN PHYSIOLOGY – I

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Human Physiology- I Theory</b>
<b>Course Code</b>	<b>BOT23S102</b>
<b>Course Description</b>	<b>Core Theory</b>
<b>Credit per Semester</b>	<b>3 credits</b>
<b>Hours per Semester</b>	<b>60</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Explain about relative contribution of each organ system in maintenance of the Milieu Interior (Homeostasis)
CO 2	Explain about physiological functions of various systems, with special reference to Musculo-skeletal, Neuro-motor, Cardio-respiratory, Excretory, & relate alterations in function with aging
CO 3	Acquire the skill of basic clinical examination, with special emphasis to Cardiovascular & Respiratory system

### COURSE OF STUDY

#### General Physiology

1. Introduction and scope of Physiology
2. Cell and tissue-Its structure, principal constituents, properties and functions including cell division.
3. Body Fluid.
  - (a) Blood: Composition and general functions of plasma. Blood cells – structure and function - Red Blood cells, white Blood Cells – including numbers and approximate length of life – position, structure and function of cells of Reticulo endothelial system.
  - (b) Blood clotting including bleeding time and clotting time, factors accelerating or slowing the process. Blood groups and their significance, Rh-factor, Hemoglobin and E.S.R.
  - (c) Formation of Blood, tissue fluid and lymph.

#### Cardio-Vascular System.

- (a) Structure and properties of Heart Muscles and nerve supply of Heart.
- (b) Cardiac cycle and Heart sound.
- (c) Cardiac output measurements, factors affecting Heart Rate and its regulation.
- (d) Blood pressure, its regulation, physiological variation, peripheral resistance, Factors Controlling Blood Pressure
- (e) ECG study and stress test.

#### Respiratory System.

- (a) Mechanism of Respiration, Changes in diameter of thorax, Intra-pleural and Intra-pulmonary pressure.
- (b) Quantities of lung volume, tidal and residual volume, vital capacity.
- (c) Gaseous inter-changes in lung and tissues.
- (d) Control of respiration-Nervous and chemical significance of changes in rate and depth, transportation of oxygen and carbon dioxide.

(e) Respiratory states-anoxia, asphyxia, Cyanosis, Acclimatization.

### Neuromuscular Physiology

- (1) Cell membrane – Ionic and Potential gradient and transport.
- (2) Muscle – Types of muscular tissue – Gross and Microscopic structure – function. Isometric and Isotonic contraction.
- (3) Motor units and its properties – clonus, tetanus, all or none law, Fatigue.
- (4) Nerve – Gross and microscopic structure of nervous tissue, one neuron – Generation of action potential – Nerve impulse condition.
- (5) Neuromuscular junction.
- (6) Degeneration – Regeneration of peripheral nerves, electro tonus and Pfluger’s law.
- (7) Types and properties of receptors, types of sensations, synapse, reflex arc, its properties - occlusion, summation, sub minimal fatigue etc.
- (8) Tracts – Ascending and descending and extra-pyramidal tracts.
- (9) Thalamus & Hypothalamus – connection and functions.
- (10) Reticular formation – tone posture & equilibrium, Autonomic nervous system.

### Special Senses

1. Eye-Errors of refraction, equilibrium, Autonomic nervous system.
2. Speech and its disorders.
3. Ear and Vestibular apparatus, taste, olfactory, somatic sensations.

## Practical

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Human Physiology - I Practical</b>
<b>Course Code</b>	<b>BOT23S102P</b>
<b>Course Description</b>	<b>Core Practical</b>
<b>Credit per Semester</b>	<b>3 credits</b>
<b>Hours per Semester</b>	<b>120</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Learn basic methods to carry out hematological tests and physiological examination
CO 2	Identify structures of the cardio vascular & respiratory system, mechanism of respiration and the course of blood vessels, structure of rib cage & its contents with special emphasis to lungs, tracheo-bronchial tree, respiratory muscles & heart.
CO 3	Identify source & course of major arterial, venous & lymphatic system, related to upper quadrant, thorax and heart.

- (a) Hematology: RBC count, WBC count, differential count. ESR, Bleeding & Clotting time, Estimation of hemoglobin, Blood groups.
- (b) Human Physiology: Examination of:
  - a) Respiratory System
  - b) Heart & Arterial Pulse
  - c) Measurement of Blood Pressure
- (c) Effect of Exercises on body physiology

### Paper-III - Introduction to Occupational Therapy

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Introduction to Occupational Therapy - Theory</b>
<b>Course Code</b>	<b>BOT23S103</b>
<b>Course Description</b>	<b>Core Theory</b>
<b>Credit per Semester</b>	<b>4 credits</b>
<b>Hours per Semester</b>	<b>80</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Learn basic concepts and history of Occupational Therapy
CO 2	Explain about ethics along with rules and regulations of Occupational Therapy
CO 3	Acquire the skill of basic evaluation skills

### COURSE OF STUDY

- 1) Definition and scope of Occupational Therapy.
  - (a) History & development of Occupational Therapy.
  - (b) Philosophy of Occupational Therapy & Rehabilitation, Rehab team, referral mechanism, need of rehabilitation. Principles of physical medicine.
  - (c) Application of Occupational Therapy-Occupational Therapy process.
  
- 2) Theory of Occupation:
  - (a) Forms of occupation, occupation as evolutionary trait, biological dimensions.
  - (b) Social dimensions, psychological dimensions of occupation, Application of theory to Occupational Therapy.
  
- 3) Principles and methods of Assessment:
  - (a) Joint range of motion
  - (b) Muscle strength
  
- 4) Ethics
  - (a) The implications of and confirmation to the roles of professional conduct
  - (b) Legal responsibility for their actions in the professional context and understanding liability and obligations in case of medico legal action
  - (c) A wider knowledge of ethics relating to current social and medical policy in the provision of health care
  
- 5) Introduction to Models of Occupation Therapy

## Practical

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Introduction to Occupational Therapy - Practical</b>
<b>Course Code</b>	<b>BOT23S103P</b>
<b>Course Description</b>	<b>Core Practical</b>
<b>Credit per Semester</b>	<b>5 credits</b>
<b>Hours per Semester</b>	<b>200</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Demonstrate and applications of JROM
CO 2	Demonstrate and applications of MMT
CO 3	Acquire the skill of basic evaluation skills

- 1) Assessment of joint range of motion.
- 2) Assessment of manual muscle testing.



## Paper-IV – SOCIOLOGY

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Sociology -Theory</b>
<b>Course Code</b>	<b>BOT23S104</b>
<b>Course Description</b>	<b>Core Theory</b>
<b>Credit per Semester</b>	<b>2 credits</b>
<b>Hours per Semester</b>	<b>40</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Describe social factors affecting health, influence of family, social groups, culture, community and governmental policies on health perspectives
CO 2	Identify vulnerable population, role of social support systems and NGOs, legislations related to disability and role of medical social worker.
CO 3	Describe the interaction between social problems and public health

### Course of Study

#### (1) Introduction

Definition of Sociology. Sociology as a science, uses of the study of Sociology, application of knowledge of sociology in Occupational Therapy.

#### (2) Sociology and health

Social factors affecting health status, social consciousness and perception of illness, social consciousness and meaning of illness, decision making in taking treatment. Institutions of health, their role in the improvement of health and the people.

#### (3) Socialization: -

Meaning of socialization, influence of social factors on personality, socialization in hospital and socialization in rehabilitation of patients.

#### (4) Family: -

Influence of family on human personality, discussion of changes in the functions of a family, influence of family on the individual's rehabilitation.

#### (5) Social problems of the disabled

(a) Consequences of the following social problems in relation to sickness and disability, remedies to prevent these problems:

- i. Population explosion
- ii. Poverty and unemployment
- iii. Beggary
- iv. Juvenile delinquency
- v. Prostitution
- vi. Alcoholism
- vii. Problems of women in employment

## Paper-V - BASIC COMPUTERS

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Basic Computers - Theory</b>
<b>Course Code</b>	<b>BOT23S105</b>
<b>Course Description</b>	<b>Elective Theory</b>
<b>Credit per Semester</b>	<b>2 credits</b>
<b>Hours per Semester</b>	<b>45</b>

<b>Course Learning Outcomes: The student will be able to</b>	
<b>CO 1</b>	To obtain the basic knowledge on computer, devices used in computers.
<b>CO 2</b>	To know the uses of computers like MS office, Power point Presentations, Excel documents
<b>CO 3</b>	To know about uses of internet, its advantages in regular updating the knowledge in Occupational therapy profession

### COURSE OF STUDY

#### **Introduction to computer:**

- A. Introduction, characteristics of computer, block diagram of computer, generations of computer, computer languages.

#### **Input output devices:**

- A. Input devices(keyboard, point and draw devices, data scanning devices, digitizer, electronic card reader, voice recognition devices, vision-input devices),output devices(monitors, pointers, plotters, screen image projector, voice response systems).

#### **Processor and memory:**

- A. The Central Processing Unit (CPU), main memory.

#### **Storage Devices:**

- A. Sequential and direct access devices, magnetic tape, magnetic disk, optical disk, mass storage devices.

#### **Introduction of windows:**

- A. History, features, desktop, taskbar, icons on the desktop, operation with folder, creating shortcuts, operation with windows (opening, closing, moving, resizing, minimizing and maximizing, etc.).

#### **Introduction to MS-Word:**

- A. introduction, components of a word window, creating, opening and inserting files, editing a document file, page setting and formatting the text, saving the document, spell checking, printing the document file, creating and editing of table, mail merge.
- A. Introduction, about worksheet, entering information, saving workbooks and formatting, printing the worksheet, creating graphs.

#### **Introduction to power-point:**

- A. Introduction, creating and manipulating presentation, views, formatting and enhancing text, slide with graphs.

#### **Introduction of Operating System:**

A. Introduction, operating system concepts, types of operating system.

**Computer networks:**

B. Introduction, types of network (LAN, MAN, WAN, Internet, Intranet), network topologies (star, ring, bus, mesh, tree, hybrid), components of network.

**Internet and its Applications:**

A. definition, brief history, basic services (E-Mail, File Transfer Protocol, telnet, the World Wide Web (WWW)), www browsers, use of the internet. Application of Computers in clinical settings.

## Paper-VI – ENGLISH

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>English - Theory</b>
<b>Course Code</b>	<b>BOT23S106</b>
<b>Course Description</b>	<b>Elective Theory</b>
<b>Credit per Semester</b>	<b>2 credits</b>
<b>Hours per Semester</b>	<b>45</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Apply Basics of Grammar and Writing Skills
CO 2	Apply and communicate ideas orally and in writing with a high level of proficiency
CO 3	Use appropriate expressions in varied situations and topics of interest
CO 4	Demonstrate independence in using basic language structure in oral and written
CO 5	Apply correct usage of English grammar in writing and speaking
CO 6	Speak in English both in terms of fluency and comprehensibility

### **INTRODUCTION**

History of the language  
Regional distribution  
Variation in dialect and accent

### **PHONOLOGY**

Consonants and vowels  
Phonetics  
Stress, rhythm and intonation  
Regional variation

### **GRAMMER**

Noun, Pronoun  
Verb, Tense  
Adjuncts  
Adjectives

### **SYNTAX**

Clause syntax  
Auxiliary verbs  
Vocabulary  
Word formation  
Pronunciation

### **PRESENTATION**

Oral presentation & Panel discussion  
Interview reparation  
Clarity and specificity

## Paper-VII - YOGA THERAPY

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Yoga Therapy - Theory</b>
<b>Course Code</b>	<b>BOT23S107</b>
<b>Course Description</b>	<b>Elective Theory</b>
<b>Credit per Semester</b>	<b>2 credits</b>
<b>Hours per Semester</b>	<b>45</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Maintaining one's health
CO 2	Following a specific routine module for general health

### COURSE OF STUDY

#### **Introduction to Yoga**

- (a) Introduction to Yoga
- (b) Principles of Yoga

#### **Patanjali**

- (a) History of Yoga
- (b) Yoga in Ancient and Modern India

#### **Folds of Yoga**

- (1) Types & Forms of Yoga
- (2) Asanas & its physiological effects

#### **Yogic Science**

- (a) Scientific background of Yoga
- (b) Yoga in modern world

#### **Advantages of Yoga**

- (1) Physiological Effects of Yoga
- (2) Therapeutic Uses of Yoga

Model Paper

This question paper contains 1 printed page

**Semester-I BOT**

**Anat. I**

**BOT23S101**

**Semester-I Bachelor of Occupational Therapy  
Examination Year**

**Paper – I  
HUMAN ANATOMY-I**

**Time: Three Hours**

**Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |      |   |    |
|------|---|----|
| Q.1  | Classify joints with the help of suitable examples with special emphasis on synovial variety.       | 10 |
| Q.2  | What are the muscles of scapular regions? Mention their origin, insertion, nerve Supply and action- | 10 |
| Q.3  | Describe the muscles of arm with their action   | 10 |
| Q.4. | Explain Cell and its parts and their functions  | 10 |
| Q.5  | Describe hip joint, explain its type, articular surface and its ligaments                           | 10 |
| Q.6  | Describe the venous drainage of lower limb with appropriate diagram.                                | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |      |                         |   |
|------|-------------------------|---|
| Q.7  | Cartilage               | 5 |
| Q.8  | Development of Skin     | 5 |
| Q.9  | Ossification of Bones   | 5 |
| Q.10 | Biceps Brachii          | 5 |
| Q.11 | Wrist Joint             | 5 |
| Q.12 | Arch of Foot            | 5 |
| Q.13 | Describe Types of Joint | 5 |
| Q.14 | Femoral Nerve           | 5 |

**Model Paper**

This question paper contains 1 printed pages

**Semester-I BOT**

**BOT23S102**

**Physio.-I**

**Semester-I Bachelor of Occupational Therapy  
Examination Year**

**Paper- II  
HUMAN PHYSIOLOGY-I**

**Time : Three Hours**

**Maximum Marks : 70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

**Long answer question** (Attempt any **FOUR** Questions out of **SIX**) **(4x10=40)**

- |  |    |
|--|----|
| Q1. Define excitation contraction coupling. Give sequence of events during its occurrence.<br>Explain molecular basis of muscle contraction. | 10 |
| Q2. Describe blood clotting mechanism and significance of blood groups?  | 10 |
| Q3. Describe muscle and types of muscular tissue in details  | 10 |
| Q4. Describe the composition of blood and general functions of blood?  | 10 |
| Q5. What is blood pressure, mention factors affecting blood pressure?  | 10 |
| Q6. Describe types and properties of receptors   | 10 |

**Short answer question** (Attempt any **SIX** Questions out of **EIGHT**) **(6x5=30)**

- |   |   |
|---|---|
| Q.7 Asphyxia                                      | 5 |
| Q.8 Vestibular Apparatus- Structure and Functions | 5 |
| Q.9 Motor Units                                   | 5 |
| Q.10 Sensations                                   | 5 |
| Q.11 Mechanism of Respiration                     | 5 |
| Q.12 Cardiac Cycle                                | 5 |
| Q. 13 Functions of White Blood Corpuscles         | 5 |
| Q.14 Formation of Lymph                           | 5 |

Model Paper

This question paper contains 1 printed page

**Semester-I BOT  
BOT23S103**

**Int. OT**

**Semester-I Bachelor of Occupational Therapy  
Examination Month Year**

**Paper- III  
INTRODUCTION TO OCCUPATIONAL THERAPY**

**Time: Three Hours**

**Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |      |  |    |
|------|--|----|
| Q. 1 | Write in brief about history and scope of occupational therapy in India. | 10 |
| Q. 2 | Write the principals and methods of assessment of muscle strength.       | 10 |
| Q. 3 | Explain joint range of motion in details                                 | 10 |
| Q. 4 | Explain ethics in detail   | 10 |
| Q. 5 | Write in detail about theories of occupation.                            | 10 |
| Q. 6 | Explain application of occupational therapy in detail.                   | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |      |                          |   |
|------|--------------------------|---|
| Q.7  | Social dimensions        | 5 |
| Q.8  | MMT grade                | 5 |
| Q.9  | Rehab team               | 5 |
| Q.10 | Rehabilitation           | 5 |
| Q.11 | Forms of Occupation      | 5 |
| Q.12 | Referral Mechanism       | 5 |
| Q.13 | Professional Conduct     | 5 |
| Q.14 | Psychological Dimensions | 5 |



Model Paper

This question paper contains 1 printed page

Semester-I BOT

**BOT23S104**

**Soc.**

**Semester-I Bachelor of Occupational Therapy  
Examination Year**

**Paper- IV  
SOCIOLOGY**

**Time: Three Hours**

Maximum Marks: 70

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |   |    |
|---|----|
| Q1. Examine the importance of sociology in the field of occupational therapy. | 10 |
| Q2. Define health. Discuss institutions of health                             | 10 |
| Q3. What is family? What are the functions of family?                         | 10 |
| Q4. Describe problems of women in employment                                  | 10 |
| Q5. Describe sociology and social factors affecting health status.            | 10 |
| Q6. Describe socialization, social group, family and its application.         | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |                           |   |
|---------------------------|---|
| Q1. Primary Group         | 5 |
| Q2. Define Rehabilitation | 5 |
| Q3. Causes of Alcoholism  | 5 |
| Q4. Type of Poverty       | 5 |
| Q5. Population Explosion  | 5 |
| Q6. Beggary               | 5 |
| Q7. Unemployment          | 5 |
| Q8. Juvenile delinquency  | 5 |

**Model Paper**

This question paper contains 1 printed page

**Semester-I BOT  
BOT23S105**

**Bas. Comp.**

**Semester-I Bachelor of Occupational Therapy  
Examination Month Year**

**Paper- V  
Basic Computer (Elective Course)  
Time: Three Hours  
Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |      |   |    |
|------|---|----|
| Q. 1 | Write in brief about characteristics of computer?               | 10 |
| Q. 2 | Write in detail about worksheets and components of word window? | 10 |
| Q. 3 | Explain Central Processing Unit in details                      | 10 |
| Q. 4 | Explain types of computer network in detail                     | 10 |
| Q. 5 | Write in detail about basic internet services                   | 10 |
| Q. 6 | Explain application of power point in detail.                   | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |      |                       |   |
|------|-----------------------|---|
| Q7.  | World Wide Web        | 5 |
| Q8   | Input devices         | 5 |
| Q9.  | Computer languages    | 5 |
| Q10. | Mail merge            | 5 |
| Q11. | Operating system      | 5 |
| Q12. | Components of network | 5 |
| Q13. | Output Devices        | 5 |
| Q14. | Icons on Desktop      | 5 |

Model Paper

This question paper contains 1 printed page

**Semester-I BOT  
BOT23S106**

**Eng.**

**Semester-I Bachelor of Occupational Therapy  
Examination Month Year**

**Paper- VI  
English (Elective Course)**

**Time: Three Hours  
Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book  
All the parts of one question should be answered at one place.  
Different part of one question should not be answered at different places in the answer book.  
Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |      |  |    |
|------|--|----|
| Q.1  | What is oral presentation & panel discussion? Explain its importance?    | 10 |
| Q.2  | Enumerate the significance of regional distribution?                     | 10 |
| Q.3  | What are the basics of phonetics?  | 10 |
| Q.4. | Explain the history of language?   | 10 |
| Q.5  | Explain the basic rules and parts of grammar along with examples of each | 10 |
| Q.6  | Enumerate the significance of pronunciation and word formations?         | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |       |   |   |
|-------|---|---|
| Q.7   | Variation in dialect and accent.              | 5 |
| Q.8   | Interview reparation                          | 5 |
| Q.9   | Differentiate between noun and pronoun        | 5 |
| Q.10  | Clause syntax                                 | 5 |
| Q.11  | Tense   | 5 |
| Q.12  | Differentiate between adjuncts and adjectives | 5 |
| Q.13. | Auxiliary Verbs                               | 5 |

**Model Paper**

This question paper contains 1 printed page

**Semester-I BOT  
BOT23S107**

**Yog.**

**Semester-I Bachelor of Occupational Therapy  
Examination Month Year**

**Paper- VII  
YOGA (Elective Course)  
Time: Three Hours  
Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |      |  |    |
|------|--|----|
| Q. 1 | Write in brief about history of yoga?                | 10 |
| Q. 2 | Write in detail about yoga in modern world?          | 10 |
| Q. 3 | Explain forms of yoga?                               | 10 |
| Q. 4 | Explain therapeutic uses of yoga?                    | 10 |
| Q. 5 | Write in detail about scientific background of yoga? | 10 |
| Q. 6 | Explain application and principles of yoga.          | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |       |                                 |   |
|-------|---------------------------------|---|
| Q.7.  | Types of yoga                   | 5 |
| Q.8.  | Yoga                            | 5 |
| Q.9.  | Asanas                          | 5 |
| Q.10. | Physiological effects of yoga   | 5 |
| Q.11. | Yoga in ancient world           | 5 |
| Q.12. | Patanjali                       | 5 |
| Q.13. | Yoga science                    | 5 |
| Q.14. | Physiological effects of asanas | 5 |

## Semester – II

### Paper-I – HUMAN ANATOMY – II

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Human Anatomy- II Theory</b>
<b>Course Code</b>	<b>BOT23S201</b>
<b>Course Description</b>	<b>Core Theory</b>
<b>Credit per Semester</b>	<b>3 credits</b>
<b>Hours per Semester</b>	<b>60</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Explain about anatomy of lower quadrant including spine, pelvis and lower extremities: list bones, joints, soft tissues, muscles related to musculoskeletal system of spine & lower extremities and to localize various surface land-marks, apply related radiological and living anatomy.
CO 2	Explain about anatomy of structures of head, face and neck
CO 3	Explain about and outline various parts of nervous system: Source, course & components of various trans-sections of spinal tracts and C.N.S; Source, course & components of various trans-sections of brain, cranial nerves (Special emphasis to III, IV, V, VI & VII) & peripheral nerves.
CO 4	Explain about blood circulation of C.N.S. & spinal cord.
CO 5	Explain about the course of peripheral nerves.
CO 6	Explain about anatomical basis of clinical conditions of nervous system.
CO 7	demonstrate movements of lower extremity joints – Identify & describe the origin/insertion, nerve /blood supply, root value & function of various skeletal muscles (including lower extremity and spine)

### COURSE OF STUDY

#### 1. Abdomen & Pelvis:

- Peritoneum: Parietal peritoneum, visceral peritoneum, functions of peritoneum., inguinal canal
- Diaphragm, Sacral Plexus.
- Location, size, shape, features, blood supply, nerve supply and functions of the following: stomach, liver, pancreas, kidney, urinary bladder.
- Sacro-Iliac joint.

#### 2. Vertebral Column

- Identification of vertebrae of different regions.
- Intervertebral joints
- Intervertebral disc
- Muscles of vertebral column
- Weight transmission
- Applied anatomy
- Radiological anatomy

#### 3. Head & Neck

- Muscle of face, Cutaneous distribution of Trigeminal nerve, Triangles of neck

(anterior & posterior) Sternocleidomastoid and Trapezius muscles, Muscle of mastication, Nasal cavity, Pharynx and Larynx (Parts, Sensory distribution).  
 (2) Joints: Temporo-mandibular Joint, Atlanto-occipital and Atlanto-Axial joints.

### Neuroanatomy

- 1) General Introduction and classification, Autonomic Nervous system
- 2) Sympathetic and Para Sympathetic with their difference in distribution and function). Spinal cord, spinal Reflex, Pyramidal and extra-pyramidal tracts (Detail Nucleus not required), Blood supply; brainstem: gross features and blood supply; Cerebellum: gross features and functions; Cerebrum: gross features, functional areas, blood supply; Related clinical anatomy.

### Cranial Nerves

- (1) Names in order, Individual Cranial Nerve distribution, Idea about Upper Motor Neuron and Lower Motor Neuron, applied Anatomy.

### Practical

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Human Anatomy- II Practical</b>
<b>Course Code</b>	<b>BOT23S201P</b>
<b>Course Description</b>	<b>Core Practical</b>
<b>Credit per Semester</b>	<b>3 credits</b>
<b>Hours per Semester</b>	<b>120</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Identify and list bones, joints, soft tissues, muscles related to musculoskeletal system of spine & lower extremities and to localize various surface land-marks, apply related radiological and living anatomy.
CO 2	Identify structures of head, face and neck
CO 3	Identify source, course & components of various trans-sections of spinal tracts and C.N.S; Source, course & components of various trans-sections of brain, cranial nerves (Special emphasis to III, IV, V, VI & VII) & peripheral nerves.
CO 4	demonstrate movements of lower extremity joints – Identify & describe the origin/insertion, nerve /blood supply, root value & function of various skeletal muscles (including lower extremity and spine) , course of peripheral nerves

### Practical/Viva :

#### Abdomen & pelvis

- (1) Abdominal viscera, Viscera of pelvis and blood vessels.
- (2) Osteology: lumbar vertebrae, sacrum, bony pelvis

#### Head & Neck

- (1) Demonstration on cadaver of oral cavity, nasal cavity, pharynx, larynx, sagittal sections of head & neck, muscles of face and triangles of neck.
- (2) Cranial bones (Identification of individual bone with general features), Base of skull : different foramina in relation to cranial nerves, Cranial fossa and their relation to brain and Hypophysis cerebri, , Cervical vertebrae.
- (3) Surface anatomy.
- (4) Radiological anatomy.

### **Neuroanatomy**

- (1) Demonstration of gross specimens of spinal cord, brainstem, cerebellum, cerebrum and meninges, Identification of cranial nerves emerging from brain and brainstem

## Paper-II – HUMAN PHYSIOLOGY - II

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Human Physiology- II Theory</b>
<b>Course Code</b>	<b>BOT23S202</b>
<b>Course Description</b>	<b>Core Theory</b>
<b>Credit per Semester</b>	<b>3 credits</b>
<b>Hours per Semester</b>	<b>60</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	describe of various systems, with special reference to Nervous system, & neuromotor alterations in function with aging.
CO 2	analyze physiological response & adaptation to environmental stresses-with special emphasis on physical activity, altitude, temperature
CO 3	demonstrate basic clinical examination, with special emphasis to special senses, sensations, reflex testing, Exercise tolerance / Ergograph.
CO 4	describe physiological functions of reproductive system, gastro intestinal system

### COURSE OF STUDY

#### 1. Digestive System

- a. General arrangement of alimentary canal, liver, pancreas -position, structure and functions.
- b. Nutrition and Diet-carbohydrate, protein, fat, salts, water, vitamins and minerals digestion, absorption and Metabolism.

#### 2. Reproductive System

Sex determination and development of puberty, male sex hormones, spermatogenesis, Female sex hormones, menstrual cycle. Ovulation, pregnancy, Function of placenta, lactation.

#### 3. Excretory System

Gross and minute structures of kidney, renal circulation, Mechanism of formation of urine, Glomerular filtration rate and tubular function, renal function and renal tests. Physiology of micturition.

#### 4. Endocrine System.

- (a) Structure and function of pituitary (anterior & posterior). Thyroid, Parathyroid, adrenal cortex, adrenal medulla, Thymus and pancreas.
- (b) Blood sugar regulation.

#### 5. Skin-Structure and functions.



## Practical

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Human Physiology- II Practical</b>
<b>Course Code</b>	<b>BOT23S202P</b>
<b>Course Description</b>	<b>Core Practical</b>
<b>Credit per Semester</b>	<b>3 credits</b>
<b>Hours per Semester</b>	<b>120</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Acquire the skill of basic clinical examination, with special emphasis to Cardiovascular & Respiratory system
CO 2	Examine deep and superficial reflexes and cranial nerve testing.

### 1.1 Practical

Human Physiology: Examination of:

- a. deep and superficial reflexes
- b. cranial nerves
- c. motor system
- d. sensory system including higher function

### Paper-III – Basics of Occupational Therapy Assessment

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Basics of Occupational Therapy Assessment-Theory</b>
<b>Course Code</b>	<b>BOT23S203</b>
<b>Course Description</b>	<b>Core Theory</b>
<b>Credit per Semester</b>	<b>4 credits</b>
<b>Hours per Semester</b>	<b>80</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Learn basic concepts of ADL & performance skills
CO 2	Explain about modalities used in Occupational Therapy
CO 3	Acquire the skill of basics of activity analysis

#### COURSE OF STUDY

1. Occupational Therapy practice frame work
  - b) Domain
  - c) Occupations
  - d) Client factors
  - e) Performance skills
  - f) Context and environment
  - g) Process
2. Therapeutic Modalities:
  - (a) Purposeful activity & characteristics
3. Activity Analysis:
  - (a) Principles of activity analysis
  - (b) Biomechanical & sensory motor
  - (c) Adapting & grading activity
  - (d) Selection of activity
    1. Activities of daily living –
      - a. Definition
      - b. Classification
      - c. Evaluation of ADL
      - d. Various scales used in ADL (FIM, Barthel, Katz, Home management checklist)
      - e. Principles & specific techniques in ADL training for:
    2. Adaptation:
      - a. Adaptation process
      - b. Principal of adaptation
      - c. Introduction to adapted devices
      - d. Designing of adaptive devices: Explain design and fabrication of common adaptive devices with knowledge of material and equipment used for the same. Briefly explain application of the same in occupational therapy.
    3. Crafts: Knowledge of tools, equipment, materials, their therapeutic values & uses.

4. Recreational Activities: Outline the use of the following recreational activities as a therapeutic medium. Plan the following activities for various patient groups.
- (a) Sports
  - (b) Games
  - (c) Picnic
  - (d) Drama
  - (e) Leisure & hobbies
  - (f) Music
  - (g) Play

**Muscle tone**

- 1. Definition of tone
- 2. Normal muscle tone
- 3. Abnormal muscle tone
- 4. Modified Ashworth scale

**Achieving access to home, community and work place**

- a) Environment modifications
- b) Driver Rehab

**Practical**

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Basics of Occupational Therapy Assessment -Practical</b>
<b>Course Code</b>	<b>BOT23S203P</b>
<b>Course Description</b>	<b>Core Practical</b>
<b>Credit per Semester</b>	<b>5 credits</b>
<b>Hours per Semester</b>	<b>200</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Learn basic concepts of muscle tone
CO 2	Acquire the skill of basics of activity analysis

- Muscle tone assessment
- Activity Analysis

## Paper – IV- PSYCHOLOGY

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Psychology -Theory</b>
<b>Course Code</b>	<b>BOT23S204</b>
<b>Course Description</b>	<b>Core Theory</b>
<b>Credit per Semester</b>	<b>2 credits</b>
<b>Hours per Semester</b>	<b>40</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	define the term Psychology & its importance in health delivery system, explain psychological maturation during human development & growth & alterations during aging process
CO 2	explain the importance of psychological status of the person in health & disease; environmental & emotional influence on the mind & personality
CO 3	apply skills required for good interpersonal communication
CO 4	describe various psychiatric disorders with special emphasis to movement / Pain & ADL
CO 5	describe pathological & etiological factors, signs /symptoms & management of various psychiatric conditions

### Course of Study

- (1) Definition of Psychology
  - (a) Science of mind, consciousness and behavior
  - (b) Scope and branches of Psychology
- (2) Concepts of normality and abnormality: Causes of abnormality, Criteria for abnormality. Broad classification of Current model of abnormal behaviour - Medical model, Psychodynamic model, Behaviouristic model & Humanistic model, and Cognitive model
- (3) Hereditary and Environment
  - i) Relative importance of heredity and environment
  - ii) Nature vs. nurture controversy
- (4) Learning- Types of Learning
  - (a) Trial and error
  - (b) Classical Learning
  - (c) Instrumental learning
  - (d) Insight for Learning
- (5) Memory
  - (a) Steps of memory
  - (b) Measurement of memory
  - (c) Causes of forgetting
  - (d) Concept of STM and LTM
- (6) Perceptual Process
  - i) Nature of perceptual process
  - ii) Structural and functional factors in perception
  - iii) Illusion and Hallucination
- (7) Intelligence : Definition: theory and assessment
- (8) Reaction to loss: Reaction to loss, death and bereavement: shock and disbelief, development of awareness, restitution, and resolution. Stages of acceptance as proposed by Kubler-Ross.

- (9) Stress: Physiological and psychological changes, relation to health and sickness:  
Psychosomatics, professional stress, burnout.
- (10) Rehabilitation Psychology:  
contribution of psychology in Total Rehab.

## Paper- V - DISASTER MANAGEMENT

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Disaster Management -Theory</b>
<b>Course Code</b>	<b>BOT23S205</b>
<b>Course Description</b>	<b>Elective Theory</b>
<b>Credit per Semester</b>	<b>2 credits</b>
<b>Hours per Semester</b>	<b>45</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	To acquaint the students with disasters and disaster management.
CO 2	To provide an overview of disasters and disaster management in India.

### Course of Study

#### Introduction to Disasters

- A. Concepts, and definitions (Disaster, Hazard, Vulnerability, Resilience, Risks)
- B. Disasters
- C. Classification Causes, Impacts (including social, economic, political, environmental, health, psycho social, etc.)
- D. Different impacts – in terms of caste, class, gender, age, location, disability Global trends in disasters. urban disasters, pandemics, complex emergencies, Climate Change

#### Approaches to Disaster Risk reduction

- A. Disaster cycle-its analysis, Phases, Culture of safety, prevention, mitigation and preparedness community based DRR, Structural – non structural ensures, roles and responsibilities of-community, Panchayati Raj Institutions/Urban Local Bodies (PRIs/ULBs), states, Centre, and other stake – holders.

#### Inter – relationship between Disasters and Development

- A. Factors affecting Vulnerabilities, different impacts, impact of Development projects such as dams, embankments, changes in Land-use etc. Climate Change Adaptation. Relevance of indigenous knowledge, appropriate technology and local resources

#### Disaster Risk Management in India

- A. Hazard and Vulnerability profile of India Components of Disaster Relief: Water, Food, Sanitation, Shelter, Health, Waste Management institutional Arrangements (Mitigation, Response and Preparedness, DM Act and Policy, Other related policies, plans, programmed and legislation).

#### Project Work: (Field Work, Case Studies)

- A. The project /fieldwork is meant for students to understand vulnerabilities and to work on reducing disaster risks and to build a culture of safety. Projects must be conceived creatively based on the geographic location and hazard profile of the region where the college is located.

## Paper – VI- ENVIRONMENTAL SCIENCE

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Environmental Science -Theory</b>
<b>Course Code</b>	<b>BOT23S206</b>
<b>Course Description</b>	<b>Elective Theory</b>
<b>Credit per Semester</b>	<b>2 credits</b>
<b>Hours per Semester</b>	<b>45</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Describe ecosystem and its structural and functional aspects, examine interconnectedness among all the biotic and abiotic components of environment and dynamic nature of ecological processes in maintaining equilibrium in nature.
CO 2	List earth's resources, their generation, extraction and impact of human activities on earth's environment, to examine effective management strategies, and critical insight on major sustainability issues.

### Course of Study

**Unit 1:** Multidisciplinary nature of environmental studies a. Definition, scope and importance b. Need for public awareness.

**Unit 2:** Natural Resources Natural resources and associated problems a. Forest resources: Use and over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forest and tribal people. b. Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems. c. Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies. d. Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer- pesticide problems, water logging, salinity, case studies. e. Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources. Case studies. f. Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification. g. Role of an individual in conservation of natural resources. h. Equitable use of resources for sustainable lifestyles.

**Unit 3:** Ecosystems a. Concept of an ecosystem. b. Structure and function of an ecosystem. c. Producers, consumers and decomposers. d. Energy flow in the ecosystem. e. Ecological succession. f. Food chains, food webs and ecological pyramids g. Introduction, types, characteristic features, structure and function of the following ecosystem: - 1. Forest ecosystem 2. Grassland ecosystem 3. Desert ecosystem 4. Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries) 26/95

**Unit 4: Biodiversity and its conservation** □ Introduction – Definition: genetic, species and ecosystem diversity. □ Bio geographical classification of India □ Value of biodiversity consumptive use, productive use, social, ethical, aesthetic and option values. □ Biodiversity at global, National and local levels. □ India as a mega-diversity nation □ Hot-spots of biodiversity □ Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts. □ Endangered and endemic species of India □ Conservation of biodiversity: In-situ and Ex-situ □ Conservation of biodiversity.

**Unit 5: Environmental Pollution** Definition Cause, effects and control measures of:- □ Air pollution □ Water pollution □ Soil pollution □ Marine pollution □ Noise pollution □ Thermal pollution □ Nuclear hazards □ Solid waste Management: Causes, effects and control measures of urban and industrial wastes. Role of an individual in prevention of pollution. Pollution case studies Disaster management: floods, earthquake, cyclone and landslides.

**Unit 6: Environment Issues** □ From Unsustainable to Sustainable development □ Urban problems related to energy □ Water conservation, rain water harvesting, watershed management □ Resettlement and rehabilitation of people; its problems and concerns. Case Studies □ Environmental ethics: Issues and possible solutions. □ Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case Studies □ Wasteland reclamation. □ Consumerism and waste products. □ Environment Protection Act. 27/95 □ Air (Prevention and Control of Pollution) Act. □ Water (Prevention and control of Pollution) Act □ Wildlife Protection Act □ Forest Conservation Act □ Issues involved in Endorcement of environmental legislation. □ Public awareness

**Unit 7: Population and Human rights.** □ Population growth, variation among nations. □ Population explosion – Family Welfare Programme VII □ Environment and human health. □ Human Rights. □ Value Education. □ HIV/AIDS. □ Women and Child Welfare □ Role of Information Technology in Environment and human health. □ Case Studies. Unit 8: Field work □ Visit to a local area to document environmental assets river/ forest/ grassland/ hill/ mountain □ Visit to a local polluted site-Urban/Rural/Industrial/ Agricultural □ Study of common plants, insects, birds. □ Study of simple ecosystems-pond, river, hill slopes, etc.



## Paper-VII- BIOCHEMISTRY

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Biochemistry - Theory</b>
<b>Course Code</b>	<b>BOT23S207</b>
<b>Course Description</b>	<b>Elective Theory</b>
<b>Credit per Semester</b>	<b>2 credits</b>
<b>Hours per Semester</b>	<b>45</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Describe carbohydrate, fat and protein metabolism, classification, digestion, absorption, regulation and clinical application
CO 2	Define bio-enzymes, classify, factors affecting enzyme action and therapeutic uses Describe vitamins, minerals, hormones - classify, discuss manifestations of Nutritional deficiency
CO 3	Discuss normal levels in body fluids required for functioning and their abnormal Levels to understand the disease process
CO 4	Discuss biochemical mechanisms of muscle contraction and biochemistry of Connective tissue
CO 5	Describe functions of nucleic acids

### Course of study

#### Theory

- (1) Bio-Physics: Concepts of Ph and buffers, Acid-base equilibrium, osmotic pressure and its physiological applications.
- (2) Carbohydrates, Lipids & proteins & Metabolism: Definition, functions, sources, classification & metabolism
- (3) Vitamins: Classification, Fat soluble vitamins A,D,E,K Water soluble vitamins-B Complex and Vitamin 'C', Daily requirement physiological functions and disease of vitamin deficiency.
- (4) Water Metabolism: Fluid compartments, Daily intake and output, Dehydration, Sodium and potassium Metabolism.
- (5) Mineral Metabolism: Iron, Calcium, Phosphorous, Trace elements.
- (6) Nutrition: Nutritional aspects of carbohydrate, fat and proteins, Balanced diet, Metabolism in exercise and injury, Diet for chronically ill and terminally ill patients.

Model Paper

This question paper contains 1 printed page

**BOT Semester-II**  
**BOT23S201**

**Anat. -II**

**Semester-II Bachelor of Occupational Therapy**  
**Examination Year**

**Paper – I**  
**HUMAN ANATOMY-II**

**Time: Three Hours**

**Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |      |   |    |
|------|---|----|
| Q.1  | Explain Diaphragm in detail   | 10 |
| Q.2  | Explain in detail about respiratory system and lungs  | 10 |
| Q.3  | Describe Temporo-mandibular Joint in detail   | 10 |
| Q.4. | Explain heart and its blood supply in detail  | 10 |
| Q.5  | Describe intervertebral joints joint, explain its type, articular surface and its ligaments | 10 |
| Q.6  | Describe muscles of vertebral column  | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |      |                       |   |
|------|-----------------------|---|
| Q.7  | Pleura                | 5 |
| Q.8  | Sympathetic System    | 5 |
| Q.9  | Spinal Cord           | 5 |
| Q.10 | Spinal Reflex         | 5 |
| Q.11 | Brainstem             | 5 |
| Q.12 | Cerebrum              | 5 |
| Q.13 | Pyramidal Tracts      | 5 |
| Q.14 | Extrapyramidal Tracts | 5 |

Model Paper

This question paper contains 1 printed page

**Semester-II BOT  
BOT23S202**

**Physio. -II**

**Semester-II Bachelor of Occupational Therapy  
Examination Year**

**Paper- II  
HUMAN PHYSIOLOGY-II  
Time: Three Hours  
Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

**Long answer question** (Attempt any **FOUR** Questions out of **SIX**) **(4x10=40)**

- |   |    |
|---|----|
| Q1. Define mechanism and formation of urine in detail.  | 10 |
| Q2. Describe reproductive system in                     | 10 |
| Q3. Describe alimentary canal in details                | 10 |
| Q4. Describe functions and structure of skin in details | 10 |
| Q5. Describe digestive system                           | 10 |
| Q6. Describe menstrual cycle                            | 10 |

**Short answer question** (Attempt any **SIX** Questions out of **EIGHT**) **(6x5=30)**

- |                                 |   |
|---------------------------------|---|
| Q.7 Parathyroid hormone         | 5 |
| Q.8 Renal Tests                 | 5 |
| Q.9 Pancreas                    | 5 |
| Q.10 Spermatogenesis            | 5 |
| Q.11 Blood sugar regulation     | 5 |
| Q.12 Digestion                  | 5 |
| Q. 13 Functions of sex hormones | 5 |
| Q.14 Adrenal cortex             | 5 |

Model Paper

This question paper contains 1 printed page

Semester-II BOT

**BOT23S203**

**Bas. OT. Asst.**

**Semester-II Bachelor of Occupational Therapy  
Examination Year**

**Paper – III**

**Basics of Occupational Therapy Assessment**

**Time: Three Hours**

**Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

**Long answer question** (Attempt any **FOUR** Questions out of **SIX**) **(4x10=40)**

- |     |   |    |
|-----|---|----|
| Q1. | Define Occupational Therapy Practice framework in details         | 10 |
| Q2. | Describe purposeful activities and its characteristics in details | 10 |
| Q3. | Describe activity analysis and its principal in detail            | 10 |
| Q4. | Describe ADL and its classifications in details                   | 10 |
| Q5. | Describe recreational activities in details                       | 10 |
| Q6. | Describe muscle tone in details                                   | 10 |

**Short answer question** (Attempt any **SIX** Questions out of **EIGHT**) **(6x5=30)**

- |       |                  |   |
|-------|------------------|---|
| Q.7   | MAS              | 5 |
| Q.8   | Crafts           | 5 |
| Q.9   | FIM              | 5 |
| Q.10  | Barthel          | 5 |
| Q.11  | Katz             | 5 |
| Q.12  | adaptive devices | 5 |
| Q. 13 | IADL             | 5 |
| Q.14  | ADL training     | 5 |

## Model Paper

This question paper contains 1 printed page

**Semester-II BOT  
BOT23S204**

**Psch.**

**Semester-II Bachelor of Occupational Therapy  
Examination Year**

**Paper – IV  
PSYCHOLOGY**

**Time: Three Hours  
Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |     |  |    |
|-----|--|----|
| Q.1 | Define psychology. Explain any five branches of psychology in brief. | 10 |
| Q.2 | Discuss the need hierarchy theory of Maslow about motivation.        | 10 |
| Q.3 | What is Intelligence? Discuss any three theories of intelligence.    | 10 |
| Q.4 | Describe memory and its types in details                             | 10 |
| Q.5 | Describe stress in details   | 10 |
| Q.6 | Describe learning and its types                                      | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |      |                        |   |
|------|------------------------|---|
| Q.7  | Interview              | 5 |
| Q.8  | Observation method     | 5 |
| Q.9  | Behavioral Model       | 5 |
| Q.10 | Anxiety                | 5 |
| Q.11 | Introspection method   | 5 |
| Q.12 | Compliance             | 5 |
| Q.13 | Personality            | 5 |
| Q.14 | 8 stages of acceptance | 5 |

## Model Paper

This question paper contains 1 printed page

**Semester-II BOT  
BOT23S205**

**Dis. Mgt.**

**Semester-II Bachelor of Occupational Therapy  
Examination Year  
Paper – V  
DISASTER MANAGEMENT (Elective Course)  
Time: Three Hours  
Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book  
All the parts of one question should be answered at one place.  
Different part of one question should not be answered at different places in the answer book.  
Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |     |  |    |
|-----|--|----|
| Q.1 | Explain in detail waste management institutional arrangements?                             | 10 |
| Q.2 | Mention the disaster cycle and its analysis?   | 10 |
| Q.3 | Define and classify disaster?  | 10 |
| Q.4 | Explain the different impacts in terms of caste, class, age and gender?                    | 10 |
| Q.5 | What are the roles and responsibilities of community and state in disaster risk reduction? | 10 |
| Q.6 | Enumerate the factors affecting vulnerabilities?   | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |      |  |   |
|------|--|---|
| Q.7  | Climate change                             | 5 |
| Q.8  | Pandemics                                  | 5 |
| Q.9  | Roles and responsibility of Panchayati Raj | 5 |
| Q.10 | DM Act                                     | 5 |
| Q.11 | Changes in Land use                        | 5 |
| Q.12 | Urban disasters                            | 5 |
| Q.13 | Culture of Safety                          | 5 |

## Model Paper

This question paper contains 1 printed page

**Semester-II BOT  
BOT23S206**

**Env. Sc.**

**Semester-II Bachelor of Occupational Therapy  
Examination Year  
Paper – VI**

**ENVIRONMENTAL SCIENCE (Elective Course)**

**Time: Three Hours**

**Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |      |  |    |
|------|--|----|
| Q.1  | Explain in detail about biodiversity and its conservation? | 10 |
| Q.2  | Mention the significance Natural resources                 | 10 |
| Q.3  | Define ecosystem and discuss its importance?               | 10 |
| Q.4. | Describe in detail about environment and human health?     | 10 |
| Q.5  | Discuss Environment Protection Act                         | 10 |
| Q.6  | Enumerate the various environmental issues                 | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |      |  |   |
|------|--|---|
| Q.7  | Water Conservation   | 5 |
| Q.8  | Food Chains and Food Webs                                      | 5 |
| Q.9  | Wildlife Protection Act  | 5 |
| Q.10 | Role of Information Technology in environment and human health | 5 |
| Q.11 | Population explosion   | 5 |
| Q.12 | Threats of biodiversity  | 5 |
| Q.13 | Aquatic ecosystem  | 5 |

## Model Paper

This question paper contains 1 printed page

**Semester-II BOT  
BOT23S207**

**Bio.**

### **Semester-II Bachelor of Occupational Therapy Examination Year**

#### **Paper – VII BIOCHEMISTRY (Elective Course)**

**Time: Three Hours**

**Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

#### **Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |     |  |    |
|-----|--|----|
| Q.1 | Classify vitamins it details. Write about their physiological functions. | 10 |
| Q.2 | Explain biophysics   | 10 |
| Q.3 | Discuss the water metabolism   | 10 |
| Q.4 | Explain the lipids in detail.  | 10 |
| Q.5 | Explain about the minerals in details.                                   | 10 |
| Q.6 | Discuss nutrition  | 10 |

#### **Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |      |                       |   |
|------|-----------------------|---|
| Q.7  | Vitamin-C             | 5 |
| Q.8  | Acid base equilibrium | 5 |
| Q.9  | Glyco-proteins        | 5 |
| Q.10 | osmotic pressure      | 5 |
| Q.11 | vitamin-A             | 5 |
| Q.12 | balance Diet          | 5 |
| Q.13 | proteins              | 5 |
| Q.14 | vitamin-E             | 5 |



## SEMESTER- III

### Paper-I – PATHOLOGY

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Pathology -Theory</b>
<b>Course Code</b>	<b>BOT23S301</b>
<b>Course Description</b>	<b>Core Theory</b>
<b>Credit per Semester</b>	<b>4 credits</b>
<b>Hours per Semester</b>	<b>80</b>

<b>Course Learning Outcomes: The student will be able to</b>	
<b>CO 1</b>	Describe cell injury & response of different tissues, organs and capacity of the body To heal
<b>CO 2</b>	Acquire knowledge of general concepts of neoplasia with reference to etiology, Gross & microscopic features, & diagnosis, in different tissues, & organs of the Body.
<b>CO 3</b>	Acquire knowledge of common immunological disorders & their effects on the Human body
<b>CO 4</b>	Acquire knowledge of prevalent communicable diseases, agents responsible for causing clinical infections, pertaining to C.N.S, C.V.S, musculoskeletal system, respiratory system, genitourinary system, wound infections and newly emerging Pathogens.
<b>CO 5</b>	Describe etiology–pathogenesis, effects & clinical–pathological correlation of Common infections & non-infectious diseases
<b>CO 6</b>	Describe common hematological disorders & investigations necessary to diagnose Them.
<b>CO 7</b>	Describe importance and best practices to prevent development of infections in Self and patients (universal safety precautions).

### COURSE OF STUDY

- (1) Aims and objectives of study of pathology.
- (2) Brief outline of cell injury, degeneration, necrosis and gangrene.
- (3) Inflammation: Definition, vascular and cellular phenomenon, difference between Transudate and exudates, Granuloma.
- (4) Circulatory disturbances: Hemorrhage, Embolism, Thrombosis, Infarction, shock, Volkmann's ischemic contracture.
- (5) Blood disorder: Anemia, Bleeding disorder.
- (6) CVS: Heart and Blood vessels, coronary heart disease.
- (7) Respiratory System: Ch. Bronchitis, Asthma, Bronchiectasis, Emphysema, COPD etc.
- (8) PNS and Muscles: Neuropathies, Poliomyelitis & Myopathies.
- (9) CNS: Infection, Demyelinating disease, Degenerative disease.
- (10) Neoplasia.
- (11) Growth and its disorders like hypertrophy, hyperplasia & atrophy.
- (12) Autoimmune diseases.
- (13) Healing and repair.
- (14) Diabetes mellitus and gout.

## Paper-II – MICROBIOLOGY

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Microbiology-Theory</b>
<b>Course Code</b>	<b>BOT23S302</b>
<b>Course Description</b>	<b>Core Theory</b>
<b>Credit per Semester</b>	<b>4 credits</b>
<b>Hours per Semester</b>	<b>80</b>

<b>Course Learning Outcomes: The student will be able to</b>	
<b>CO 1</b>	Describe cell injury & response of different tissues, organs and capacity of the body To heal
<b>CO 2</b>	Acquire knowledge of general concepts of neoplasia with reference to etiology, Gross & microscopic features, & diagnosis, in different tissues, & organs of the Body.
<b>CO 3</b>	Acquire knowledge of common immunological disorders & their effects on the Human body
<b>CO 4</b>	Acquire knowledge of prevalent communicable diseases, agents responsible for causing clinical infections, pertaining to C.N.S, C.V.S, musculoskeletal system, respiratory system, genitourinary system, wound infections and newly emerging pathogens
<b>CO 5</b>	Describe etiology–pathogenesis, effects & clinical–pathological correlation of Common infections & non-infectious diseases
<b>CO 6</b>	Describe common hematological disorders & investigations necessary to diagnose Them.
<b>CO 7</b>	Describe importance and best practices to prevent development of infections in Self and patients (universal safety precautions).

### COURSE OF STUDY

- (1) Introduction and History of Microbiology
- (2) General lectures on Microorganisms (brief).
- (3) Sterilization and asepsis.
- (4) Infection- Source of infection and Entry and it's Spread
- (5) Immunity- Natural and Acquired
- (6) Allergy and hypersensitivity.
- (7) Outline of common pathogenic bacteria and diseases produced by them.
  - (a) Respiratory tract infections.
  - (b) Meningitis.
  - (c) Enteric infections.
  - (d) Anaerobic infections.
  - (e) Urinary tract infections.
  - (f) Leprosy, tuberculosis and miscellaneous infections.
  - (g) Wound infections.
  - (h) Sexually transmitted diseases.
  - (i) Hospital acquired infections.
- (8) Virology- virus infections with special mention of Hepatitis.
- (9) Poliomyelitis & rabies.

### Paper III – BIOMECHANICS & KINESIOLOGY-I

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Biomechanics &amp; Kinesiology-I-Theory</b>
<b>Course Code</b>	<b>BOT23S303</b>
<b>Course Description</b>	<b>Core Theory</b>
<b>Credit per Semester</b>	<b>4 credits</b>
<b>Hours per Semester</b>	<b>80</b>

<b>Course Learning Outcomes: The student will be able to</b>	
<b>CO1</b>	Describe biomechanics of connective tissue, laws governing forces, study of Kinematics and kinetics, clinical and instrumented testing methods used to identify Biomechanical impairments, muscle activity and postural control during motion
<b>CO2</b>	Describe impairments related to biomechanical alterations in conditions such as Shoulder dysfunction, knee osteoarthritis and low back pain
<b>CO3</b>	Describe gait deviations
<b>CO4</b>	Apply clinical and instrumented testing methods to measure kinematics and muscle action, identify altered biomechanics using clinical tests, 2D motion analysis, superficial EMG
<b>CO5</b>	Analyze primary impairment and prescribe corrective strategies

#### COURSE OF STUDY

##### 1. Essential Concepts

- a) Motion and forces, Axis and planes, Mechanical lever, lever in Human body.
- b) Force distribution-linear force, resultant force & equilibrium, parallel forces in one plane concurrent force.
- c) Concepts of static equilibrium and dynamic equilibrium
- d) Friction, Pulleys.

##### 2 Joint Structure and Functions

- a) Basic Principles of joint structure and function.
- b) Tissues present in and around joints including fibrous tissue, bone cartilage, connective tissue, ligaments, tendons etc.
- c) Classification of joints.

##### 3 Muscle Structure and Functions

- a) Mobility and Stability functions of muscle
- b) Elements of muscle structures and its properties.
- c) Types of muscle contraction and muscle work.
- d) Classification of muscles and their functions
- e) Group action of muscles, coordinated movement.

##### 4. Posture:

- a) Anatomical aspects of posture
- b) Types of Posture
- c) Assessment of Posture
- d) Factors affecting posture
- e) Postural deviation

##### 5. Kinematics and Kinetics Concepts of following joints: a) Upper Extremity:

- i. Scapulo-shoulder Joint
- ii. Elbow Joint
- iii. Wrist Joint & Hand

## Paper-IV- OCCUPATIONAL SCIENCE

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Occupational Science -Theory</b>
<b>Course Code</b>	<b>BOT23S304</b>
<b>Course Description</b>	<b>Core Theory</b>
<b>Credit per Semester</b>	<b>6 credits</b>
<b>Hours per Semester</b>	<b>120</b>

<b>Course Learning Outcomes: The student will be able to</b>	
<b>CO1</b>	Learn about vocational and pre-vocational evaluations
<b>CO2</b>	Describe the importance of return to work
<b>CO3</b>	Explain various types of Functional Assessment scales and its clinical uses

### Course of Study

#### Theory

- (1) Industrial Rehabilitation;
  - b. Evaluation and assessment of work process & factor that might bias assessment result
  - c. Occupational injuries of back, upper limb and evaluation and prevention of injuries.
  - d. Job simulation
  - e. Work conditioning and work hardening
  - f. Job site analysis
  - g. On site therapy
  - h. Pre-vocational and vocation assessment
  - i. Employment and types of employment
  - j. Laws: OSHA
  - k. Work samples: TOWER, WEST, BTE, VALPAR
- (2) Overview of Ergonomics:
  - (a) Definition
  - (b) Principals of ergonomics
  - (c) Role of occupational therapy in ergonomics.
- (3) Ergonomics of computer.
- (4) Ergonomics of home for wheelchair bound patients.
- (5) Assistive technology: Seating and positioning devices, Transfer devices, Visual Aids, communication aids, Mobility aids, pointing and writing aids.
- (6) Clinical reasoning
- (7) Documentation
- (8) Consultation
- (9) Functional Assessment scales and its clinical uses
  - a) FIM
  - b) Sylvan Index
  - c) PEDI
  - d) Gross Motor Function
  - e) VAS
  - f) ASIA
  - g) BBS

## Practical

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Occupational Science Practical</b>
<b>Course Code</b>	<b>BOT23S304P</b>
<b>Course Description</b>	<b>Core Practical</b>
<b>Credit per Semester</b>	<b>5 credits</b>
<b>Hours per Semester</b>	<b>200</b>

<b>Course Learning Outcomes: The student will be able to</b>	
<b>CO1</b>	Learn about vocational and pre-vocational evaluations
<b>CO2</b>	Describe the importance of return to work
<b>CO3</b>	Explain various types of Functional Assessment scales and its clinical uses

1. Wheelchair training
2. Ergonomic modifications in various conditions
3. Standardized functional assessment scales.

## Paper – V HEALTH CARE

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Health Care - Theory</b>
<b>Course Code</b>	<b>BOT23S305</b>
<b>Course Description</b>	<b>Elective Theory</b>
<b>Credit per Semester</b>	<b>2 credits</b>
<b>Hours per Semester</b>	<b>45</b>

<b>Course Learning Outcomes: The student will be able to</b>	
<b>CO1</b>	Learn about health, nursing & first aid
<b>CO2</b>	Describe the importance general clinical assessments

### COURSE OF STUDY

#### Introduction to Health

1. Definition of Health, Determinants of Health, Health Indicators of India, Health Team Concept.
2. National Health Policy
3. National Health Programmes (Briefly Objectives and scope) Population of India and Family welfare programme in India

#### Introduction to Nursing

- a) What is Nursing? Nursing principles. Inter-Personnel relationships. Bandaging: Basic turns; Bandaging extremities; Triangular Bandages and their application.
- b) Nursing Position, Bed making, prone, lateral, dorsal, dorsal re-cumbent, Fowler's positions, comfort measures, Aids and rest and sleep.
- c) Lifting and Transporting Patients: Lifting patients up in the bed. Transferring from bed to wheel chair. Transferring from bed to stretcher.
- d) Bed Side Management: Giving and taking Bed pan, Urinal: Observation of stools, urine. Observation of sputum, understand use and care of catheters, enema giving.
- e) Methods of Giving Nourishment: Feeding, Tube feeding, drips, transfusion Care of Rubber Goods
- f) Recording of body temperature, respiration and pulse, Simple aseptic technique, sterilization and disinfection. Surgical Dressing: Observation of dressing procedures

#### First Aid:

- (a) Syllabus as for Certificate Course of Red Cross Society of St. John's Ambulance Brigade.

## Paper- VI- INFECTION PREVENTION AND CONTROL

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Infection Prevention and Control -Theory</b>
<b>Course Code</b>	<b>BOT23S306</b>
<b>Course Description</b>	<b>Elective Theory</b>
<b>Credit per Semester</b>	<b>2 credits</b>
<b>Hours per Semester</b>	<b>45</b>

<b>Course Learning Outcomes: The student will be able to</b>	
<b>CO1</b>	Learn about Components of infection control practice in healthcare
<b>CO2</b>	Describe the importance of Care of healthcare workers
<b>CO3</b>	Explain Measures of environmental management

### Course of Study

- A. Introduction
- B. Components of infection control practice in healthcare
- C. Hospital acquired infections
- D. Patient placement and transportation of patients
- E. Care of healthcare workers
- F. Collection and transportation of specimens for investigations
- G. Biomedical waste management
- H. Cleaning, disinfection and sterilization
- I. Measures of environmental management
- J. Healthcare associated infection surveillance

## Paper- VII- MEDICAL RECORD SCIENCE

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Medical Record Science -Theory</b>
<b>Course Code</b>	<b>BOT23S307</b>
<b>Course Description</b>	<b>Elective Theory</b>
<b>Credit per Semester</b>	<b>2 credits</b>
<b>Hours per Semester</b>	<b>45</b>

<b>Course Learning Outcomes: The student will be able to</b>	
<b>CO1</b>	Learn about Medical Record its values, purposes and uses
<b>CO2</b>	Describe the importance of medical ethics and legal aspects of medical record

### Course of Study

- A. Medical Record - History, Introduction and Definition
- B. Medical Record its values, purposes and uses
- C. Medical Record contents and components
- D. Indexes and registers
- E. Medical Record department and its function
- F. Numbering and filing of medical records
- G. Birth and Death registration
- H. Computer – Scanning of medical records
- I. Electronic Medical Record
- J. Medical ethics and legal aspects of medical record
- K. Legal aspects of hospital, patient and doctors
- L. Medical Record & Law



## Model Paper

This question paper contains 1 printed page

Semester-III BOT

BOT23S301

Patho.

### Semester-III Bachelor of Occupational Therapy Examination Month Year

#### Paper – I PATHOLOGY

**Time: Three Hours**

Maximum Marks :70

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

#### **Long answer question** (Attempt any **FOUR** Questions out of **SIX**) **(4x10=40)**

- |     |   |    |
|-----|---|----|
| Q1. | Define inflammation and its vascular and cellular phenomenon in details | 10 |
| Q2. | Describe blood disorder in detail                                       | 10 |
| Q3. | Describe coronary heart disease in detail                               | 10 |
| Q4. | Describe various degenerative disease in details                        | 10 |
| Q5. | Describe demyelinating disease in details                               | 10 |
| Q6. | Describe anemia in details  | 10 |

#### **Short answer question** (Attempt any **SIX** Questions out of **EIGHT**) **(6x5=30)**

- |      |                                |   |
|------|--------------------------------|---|
| Q.7  | Healing and Repair             | 5 |
| Q.8  | Gout                           | 5 |
| Q.9  | Atrophy                        | 5 |
| Q.10 | Hyperplasia                    | 5 |
| Q.11 | Bleeding Disorder              | 5 |
| Q.12 | Embolism                       | 5 |
| Q.13 | Shock                          | 5 |
| Q.14 | Volkman's Ischemic Contracture | 5 |

## Model Paper

This question paper contains 1 printed page  
**Semester-III BOT**  
**BOT23S302**

**Micro.**

### **Semester-III Bachelor of Occupational therapy Examination Month Year**

#### **Paper – II MICROBIOLOGY**

**Time: Three Hours**  
Maximum Marks :70

Student shall be allowed to take only one supplementary copy along with one main answer book  
All the parts of one question should be answered at one place.  
Different part of one question should not be answered at different places in the answer book.  
Draw diagrams wherever necessary

#### **Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |     |   |    |
|-----|---|----|
| Q1. | Describe poliomyelitis in details             | 10 |
| Q2. | Describe sterilization and asepsis in details | 10 |
| Q3. | Describe meningitis in details                | 10 |
| Q4. | Describe immunity in details                  | 10 |
| Q5. | Describe leprosy and its types in details     | 10 |
| Q6. | Describe allergy in details                   | 10 |

#### **Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |       |                              |   |
|-------|------------------------------|---|
| Q.7   | Tuberculosis                 | 5 |
| Q.8   | UTI                          | 5 |
| Q.9   | Rabies                       | 5 |
| Q.10  | Hepatitis                    | 5 |
| Q.11  | Wound Infections             | 5 |
| Q.12  | Enteric Infections           | 5 |
| Q. 13 | Anaerobic Infections         | 5 |
| Q.14  | Respiratory Tract Infections | 5 |

**Model Paper**

This question paper contains 1 printed page  
**Semester-III BOT**  
**BOT23S303**

**Bio. & Kin. I**

**Semester-III Bachelor of Occupational Therapy**  
**Examination Month Year**

**Paper – III**  
**BIOMECHANICS & KINESIOLOGY-I**  
**Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book  
All the parts of one question should be answered at one place.  
Different part of one question should not be answered at different places in the answer book.  
Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |     |  |    |
|-----|--|----|
| Q.1 | Describe the biomechanics elbow joint.   | 10 |
| Q.2 | Explain about the joint structure and function in detail.  | 10 |
| Q.3 | Explain the muscles and ligaments of shoulder joint. Discuss its biomechanics.                                       | 10 |
| Q.4 | explain the biomechanics of elbow joint.   | 10 |
| Q.5 | what is posture? Analyze it with respect to optional alignment of joints in the anterior-posterior and lateral views | 10 |
| Q.6 | Describe the general features of wrist joint and its function.   | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |      |   |   |
|------|---|---|
| Q.7  | Active and passive insufficiency            | 5 |
| Q.8  | Type and plane of motion                    | 5 |
| Q.9  | Diagram of muscle structure                 | 5 |
| Q.10 | Contraction-isometric, eccentric concentric | 5 |
| Q.11 | Pulleys                                     | 5 |
| Q.12 | Scapular humeral rhythm                     | 5 |
| Q.13 | Postural deviation                          | 5 |
| Q.14 | Carrying angle with diagram                 | 5 |

## Model Paper

This question paper contains 1 printed page

**Semester-III BOT**

**BOT23S304**

**Occu. Sci**

### **Semester-III Bachelor of Occupational therapy Examination Month Year**

#### **Paper – IV OCCUPATIONAL SCIENCE**

**Time: Three Hours**

**Maximum Marks :70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

#### **Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |     |   |    |
|-----|---|----|
| Q1. | Describe evaluation and assessment of work process in details       | 10 |
| Q2. | Describe occupational injuries of back in details                   | 10 |
| Q3. | Describe ergonomic of computer in details                           | 10 |
| Q4. | Describe ergonomic of home for wheelchair bound patients in details | 10 |
| Q5. | Describe assistive technology in details                            | 10 |
| Q6. | Describe prevocational and vocational assessment in details         | 10 |

#### **Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |      |                   |   |
|------|-------------------|---|
| Q.7  | OSHA              | 5 |
| Q.8  | WEST              | 5 |
| Q.9  | VALPAR            | 5 |
| Q.10 | Work conditioning | 5 |
| Q.11 | Work hardening    | 5 |
| Q.12 | Transfer devices  | 5 |
| Q.13 | Employment        | 5 |
| Q.14 | Visual aids       | 5 |

## Model Paper

This question paper contains 1 printed page

**Semester-III BOT  
BOT23S305**

**Heal. Car**

**Semester-III Bachelor of Occupational therapy  
Examination Month Year**

**Paper – V  
HEALTH CARE (Elective Course)**

**Time: Three Hours  
Maximum Marks :70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |  |    |
|--|----|
| Q.1 Explain in detail National Health Programmes?              | 10 |
| Q.2 Mention the methods of giving nourishment?                 | 10 |
| Q.3 Define health and discuss its determinants and indicators? | 10 |
| Q.4. Describe in detail about bed side management?             | 10 |
| Q.5 Discuss about principles of bandaging?                     | 10 |
| Q.6 Enumerate the significance of National Health Policy       | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |  |   |
|--|---|
| Q.7 Surgical dressing                  | 5 |
| Q.8 First Aid                          | 5 |
| Q.9 Nursing principles                 | 5 |
| Q.10 Lifting and Transporting Patients | 5 |
| Q.11 Fowler's positions                | 5 |
| Q.12 Nursing position                  | 5 |
| Q.13 Use and care of catheters         | 5 |

**Model Paper**

This question paper contains 1 printed page  
**Semester-III BOT**  
**BOT23S306**

**Inf. Prev. Cont.**

**Semester-III Bachelor of Occupational therapy**  
**Examination Month Year**

**Paper – VI**

**INFECTION PREVENTION AND CONTROL (Elective Course)**

**Time: Three Hours**

Maximum Marks :70

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |   |    |
|---|----|
| Q.1 Explain in detail Biomedical waste management?                      | 10 |
| Q.2 Mention the components of infection control practice in healthcare? | 10 |
| Q.3 Differentiate between sterilization and disinfection?               | 10 |
| Q.4. Explain in detail the measures of environmental management?        | 10 |
| Q.5 What are hospital acquired infections?                              | 10 |
| Q.6 Enumerate the significance of care of healthcare workers?           | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |                                |   |
|--------------------------------|---|
| Q.7 Transportation of patients | 5 |
| Q.8 Infection surveillance     | 5 |
| Q.9 Cleaning                   | 5 |
| Q.10 Collection of specimens   | 5 |
| Q.11 Patient placement         | 5 |
| Q.12 Prevention                | 5 |
| Q.13. Infections               | 5 |

**Model Paper**

This question paper contains 1 printed page  
**Semester-III BOT**  
**BOT23S307**

**Med. Rec. Sc.**

**Semester-III Bachelor of Occupational therapy**  
**Examination Month Year**

**Paper – VII**  
**MEDICAL RECORD SCIENCE (Elective Course)**

**Time: Three Hours**  
Maximum Marks :70

Student shall be allowed to take only one supplementary copy along with one main answer book  
All the parts of one question should be answered at one place.  
Different part of one question should not be answered at different places in the answer book.  
Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |   |    |
|---|----|
| Q.1 Explain in detail about birth and death registration?         | 10 |
| Q.2 Mention the legal aspects of hospitals, patient and doctors?  | 10 |
| Q.3 Define electronic medical records and discuss its importance? | 10 |
| Q.4. Explain the medical record contents and components?          | 10 |
| Q.5 Discuss about medical record and law?                         | 10 |
| Q.6 Enumerate the significance of medical record history?         | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |  |   |
|--|---|
| Q.7 Medical ethics                               | 5 |
| Q.8 Indexes and registers                        | 5 |
| Q.9 Numbering and filing of medical records      | 5 |
| Q.10 Legal aspects of medical records            | 5 |
| Q.11 Medical record department and its functions | 5 |
| Q.12 Purpose and uses of medical records         | 5 |
| Q.13 Computer scanning of medical records        | 5 |

## SEMESTER – IV

### Paper-I – PHARMACOLOGY

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Pharmacology -Theory</b>
<b>Course Code</b>	<b>BOT23S401</b>
<b>Course Description</b>	<b>Core Theory</b>
<b>Credit per Semester</b>	<b>4 credits</b>
<b>Hours per Semester</b>	<b>80</b>

<b>Course Learning Outcomes: The student will be able to</b>	
<b>CO 1</b>	Describe pharmacological effects of commonly used drugs by patients referred for Occupational therapy; list their adverse reactions, precautions, contraindications, formulation & route of administration.
<b>CO 2</b>	Identify whether the pharmacological effect of the drug interferes with the therapeutic response of Occupational therapy & vice versa
<b>CO 3</b>	Indicate the use of analgesics & anti-inflammatory agents with movement disorders with consideration of cost, efficiency, & safety for individual needs.
<b>CO 4</b>	Describe use & adverse reactions of commonly used drugs by patients

#### Course of Study

- (1) **General Pharmacology:** -Introduction and definitions, Nature and sources of drugs: Dosage forms of drugs. Routes of drug administration, Pharmacokinetics (Absorption, Bioavailability, Distribution, Metabolism Excretion, First order Zero order Kinetics); Pharmacodynamics (sites and mechanisms of drug action in brief, Adverse drug reactions, Margin of safety of drugs and factors influencing dosage and drug response)
- (2) **Drugs Affecting ANS:** - General Introduction, Drug affecting parasympathetic nervous system, Drug affecting sympathetic nervous systems.
- (3) **Drugs Affecting Peripheral (Somatic) nervous System:** - Skeletal Muscle Relaxants: Local Anesthetics.
- (4) **Renal and CVS:** - Diuretics; Renin- angiotensin system and its inhibitors, Drug treatment of Hypertension, Angina pectoris, Myocardial infarction Heart failure, and hypercholesterolemia.
- (5) **Anti-inflammatory drugs and related autacoids:** - Histamine, Bradykinin, 5-HT and their antagonists; Prostaglandin's and leukotrienes; Nonsteroidal-Anti-inflammatory drug, Antirheumatic drugs and drugs used in gout.
- (6) **Drugs Affecting CNS:** - General anesthetics, Anxiolytics and hypnotics; Alcohol, Opioid analgesics Drug dependence and abuse Antiepileptic drugs, Drug therapy for Neurodegenerative disorders.
- (7) **Endocrines:** - Parathyroid hormone, Vitamin D, Calcitonin and drugs affecting Calcium balance, Thyroid and antithyroid drugs; Adrenocortical and anabolic steroids, Insulins and Oral Hypoglycemic agents, Oral contraceptives.
- (8) **Drugs Affecting Respiratory System:** - Drug therapy of bronchial asthma and chronic obstructive pulmonary disease.
- (9) Chemotherapy of Tuberculosis and Leprosy



## Paper-II - BIOMECHANICS & KINESIOLOGY- II

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Biomechanics &amp; Kinesiology -II- Theory</b>
<b>Course Code</b>	<b>BOT23S402</b>
<b>Course Description</b>	<b>Core Theory</b>
<b>Credit per Semester</b>	<b>4 credits</b>
<b>Hours per Semester</b>	<b>80</b>

<b>Course Learning Outcomes: The student will be able to</b>	
<b>CO1</b>	Understand the detailed biomechanics of Gait that includes gait cycle, its determinants, kinematics and kinetics, and gait deviations.
<b>CO2</b>	explain kinetics and kinematics of joints of lower extremities, vertebral column.

### Course of Study

- (1) Kinematics and Kinetics- Concept of following joints:
  - (a) Lower Extremity
    - i. Hip & pelvis
    - ii. Knee joint
    - iii. Patello femoral joint
    - iv. Ankle and foot
  - (b) Temporomandibular joint
- (2) Biomechanics of Vertebral Column:
- (3) Biomechanics of Gait:
  - (a) Gait cycle, Spatio-temporal parameters of gait, Kinematics and Kinetics of human gait, Determinants of gait, Gait deviations in various orthopedic /neurological conditions

### Paper-III - COMMUNITY MEDICINE

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Community Medicine -Theory</b>
<b>Course Code</b>	<b>BOT23S403</b>
<b>Course Description</b>	<b>Core Theory</b>
<b>Credit per Semester</b>	<b>4 credits</b>
<b>Hours per Semester</b>	<b>80</b>

<b>Course Learning Outcomes: The student will be able to</b>	
<b>CO 1</b>	Explain the concept of health care, determinants of health, health care delivery systems and management issues in Health Services.
<b>CO 2</b>	Explain role of Occupational Therapist in preventing non-communicable diseases
<b>CO 3</b>	It will help them in improving their performance through better understanding of the health services at all the levels of community

#### Course of Study

- (1) Introduction to community health.
- (2) General concepts of health diseases, with reference to natural history of disease with pre-pathogenic and pathogenic phases. The role of socio-economic and cultural environment in health and disease. Epidemiology, definition and scope.
- (3) Public health administration- an overview of the health administration set up at Central and state levels.
- (4) The national health programme -highlighting the role of social, economic and cultural factors in the implementation of the national programme.
- (5) Health problems of vulnerable groups-pregnant and lactating women, infants and pre-school children, occupational groups.
- (6) Occupational Health-definition, scope, occupational disease prevention of occupational disease and hazards.
- (7) Social security and other measurement for the protection from occupational hazard accident and diseases. Details of compensation acts.
- (8) Family planning – objectives of national family planning programmes and family methods. A general idea of advantage and disadvantages of the methods.
- (9) Mental health emphasis on community aspects of mental diseases, role of occupational therapy in mental health problems such as mental retardation.
- (10) Communicable disease- an overall view of communicable disease, classification according to principles mode of transmission, role of insect and other factors.
- (11) International health agencies.
- (12) Community medicine and rehabilitation epidemiology, habitat, nutrition, environment anthropology.
  - (a) The philosophy and need of rehabilitation
  - (b) Principles of physical medicine
  - (c) Basic principles of administration or organization

## Paper-IV - THERAPEUTIC ACTIVITIES AND EXERCISES

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Therapeutic Activities and Exercises -Theory</b>
<b>Course Code</b>	<b>BOT23S404</b>
<b>Course Description</b>	<b>Core Theory</b>
<b>Credit per Semester</b>	<b>6 credits</b>
<b>Hours per Semester</b>	<b>120</b>

<b>Course Learning Outcomes: The student will be able to</b>	
<b>CO 1</b>	Explain the concept & Principles of Therapeutic Exercise
<b>CO 2</b>	Acquire basic assessment and evaluation skills of sensation, coordination, perception
<b>CO3</b>	Learn Hand function & evaluation methods

### Course of Study

1. Principles of Therapeutic Exercise:
  - (b) Generalized & specific principles.
  - (c) Types of Movements, Muscle contraction used in exercise.
  - (d) Exercise classification & application to activity.
  - (e) Objective to develop i) Power ii) Endurance iii) Coordination iv) ROM
  - (f) Progressive resistive exercise (PRE), Regressive resistive exercise (RRE), brief repetitive isometric exercise (BRIME)
  - (g) Breathing Exercise
2. Coordination
  1. Definition
  2. Characteristics of coordinated movements
  3. In coordination, cerebellar signs, extra pyramidal signs
  4. Assessment of coordination
3. Sensation
  1. Definition
  2. Classification of sensation
  3. Techniques of methods of sensory evaluation specific sensory testing.
4. Perception
  1. Definition
  2. Components and description of each component and assessment methods
  3. Cognition
  4. Definition
  5. Evaluation of cognitive skills: attention
  6. Orientation memory (Immediate, short term and long term memory), problem solving and executive functions.
5. Endurance
  - a. Definition
  - b. Importance of endurance in performance
  - c. Factors affecting endurance.
  - d. Relation to activity tolerance
6. Hand function & evaluation methods:
  - a. Functional anatomy of hand

- b. Prehension and grasp patterns.
  - c. Grip & pinch strength.
7. Introduction to hand splints:  
Definition, Classification, conditions, principles, material used in designing & fabrication.

**Practical**

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Therapeutic Activities and Exercises -Practical</b>
<b>Course Code</b>	<b>BOT23S404P</b>
<b>Course Description</b>	<b>Core Practical</b>
<b>Credit per Semester</b>	<b>5 credits</b>
<b>Hours per Semester</b>	<b>200</b>

<b>Course Learning Outcomes: The student will be able to</b>	
<b>CO 1</b>	Explain the concept & Principles of Therapeutic Exercise
<b>CO 2</b>	Acquire basic assessment and evaluation skills of sensation, coordination, perception
<b>CO3</b>	Learn Hand function & evaluation methods

- (1) Design a paper model of following hand splints
- a. Finger Gutter
  - b. Resting pan
  - c. Long opponence
  - d. Short opponence
  - e. Radial bar cock-up
  - f. Radial nerve splint using extension outrigger

## Paper- V- COMMUNITY HEALTH

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Community Health -Theory</b>
<b>Course Code</b>	<b>BOT23S405</b>
<b>Course Description</b>	<b>Elective Theory</b>
<b>Credit per Semester</b>	<b>2 credits</b>
<b>Hours per Semester</b>	<b>45</b>

<b>Course Learning Outcomes: The student will be able to</b>	
<b>CO 1</b>	To make understanding easier about community health in various perspectives .
<b>CO 2</b>	To work for overall prevention of disease.
<b>CO 3</b>	Evaluate the scope of rehabilitation.

### Course of study

#### INTRODUCTION

- A. Definition, concept & scope of community Health
- B. Historical development of Community health - Pre-Independence - Post Independence

#### Health planning and policies

- A. National health planning in India - Five Year Plans
- B. Various committees and commissions on health and family welfare, Central council for health and family welfare
- C. (CCH and FW)
- D. NRHM, NUHM, MDG, SDG
- E. National Health Policy (1983, 2002)
- F. National population policy
- G. Health problems in India
- H. Recent health policies

#### National health and family welfare programmes

- A. National ARI Programme
- B. Revised National Tuberculosis(RNTCP)
- C. National Anti-Malaria Programme
- D. National Leprosy eradication Programme
- E. National AIDS control programme
- F. STD control programme

- G. Iodine deficiency disorder programme
- H. Expanded programme on immunization
- I. National family welfare programme historical development, organization,
- J. administration, Research, constraints.
- K. National cancer control Programme
- L. National Nutritional Anemia prophylaxis programme
- M. ICDS programme
- N. National mental health programme
- O. Health schemes

### **Health Agencies**

- A. International - WHO, UNFPA, UNDP, World Bank, FAO, UNICEF, DANIDA, European Commission (EC). Red Cross, USAID, UNESCO, Colombo Plan, ILO, CARE etc.
- B. National - Indian Red Cross, Indian Council for child welfare, Family Planning Association of India (FPAI), Tuberculosis Association of India, Hindu Kusht Nivaran Sangh, Central Social Welfare Board, All India Women's conference, Blind Association of India etc.

### **Community health approaches & concepts**

- A. Epidemiological approach
- B. Problem solving approach
- C. Evidence based approach
- D. Empowering people to care for themselves  
Concepts of Primary Health
- E. Care: - Equitable distribution- Community Participation
- F. Focus on prevention- Use of appropriate technology- Multi-sectoral approach
- G. Roles and responsibilities: Family health services
- H. Information Education Communication (IEC) - Management information
- I. (MIS)- Maintenance of Records & Reports- Training and supervision of various categories of health

## Paper- VI- FIRST AID AND EMERGENCY HELP

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>First Aid and Emergency Help -Theory</b>
<b>Course Code</b>	<b>BOT23S406</b>
<b>Course Description</b>	<b>Elective Theory</b>
<b>Credit per Semester</b>	<b>2 credits</b>
<b>Hours per Semester</b>	<b>45</b>

<b>Course Learning Outcomes: The student will be able to</b>	
<b>CO 1</b>	To Know The importance of First aid in Occupational therapy and utilize the nursing process to provide individualized care to clients and significant support persons throughout the lifespan
<b>CO 2</b>	To Know the principles of client care management in the delegation of basic nursing procedures to qualified assistive personnel.

### Course of study

- A. Basic first aid and techniques
- B. Respiratory system and breathing
- C. Heart, blood circulation and shock
- D. Wounds and injuries
- E. Injuries to bones, joints and muscles
- F. Nervous system and unconsciousness
- G. Skin, burns, heat exhaustion, fever and hypothermia
- H. Poisoning
- I. Bites and stings
- J. Senses, foreign bodies in eye, ear, nose or skin and swallowed foreign objects

## Paper- VII- VISUALIZATION AND MEDIA DESIGN

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Visualization and Media Design -Theory</b>
<b>Course Code</b>	<b>BOT23S407</b>
<b>Course Description</b>	<b>Elective Theory</b>
<b>Credit per Semester</b>	<b>2 credits</b>
<b>Hours per Semester</b>	<b>45</b>

<b>Course Learning Outcomes: The student will be able to</b>	
<b>CO 1</b>	To Know The importance of visual media and design in occupational therapy for promotion and clinical use
<b>CO 2</b>	To Know various methods of designs and media convergence

### Course of Study

- A. Introduction to design thinking
- B. Basics of media design
- C. Design for storytelling
- D. Design software: basics of illustrator
- E. Design software: basics of photoshop and InDesign
- F. Internet and new media
- G. Media Convergence
- H. Being a new media journalist
- I. Using Social Media for news
- J. Digital marketing and Cyber crimes



## Model Paper

This question paper contains 1 printed page

**Semester-IV BOT  
BOT23S401**

**Pharma.**

### **Semester-IV Bachelor of Occupational Therapy Examination Year**

#### **Paper – I PHARMACOLOGY**

**Time: Three Hours**

**Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

#### **Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |     |   |    |
|-----|---|----|
| Q.1 | Discuss about the cardiovascular pharmacology in details. | 10 |
| Q.2 | Discuss about the movement disorder in details.           | 10 |
| Q.3 | Discuss about the chemotherapy in details.                | 10 |
| Q.4 | Discuss about the neuro-pharmacology.                     | 10 |
| Q.5 | Discuss about the blood disorders.                        | 10 |
| Q.6 | Discuss the autonomic pharmacology.                       | 10 |

#### **Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |      |                  |   |
|------|------------------|---|
| Q.7  | Pharmacodynamics | 5 |
| Q.8  | Epinephrine      | 5 |
| Q.9  | Non-epinephrine  | 5 |
| Q.10 | Antihypertensive | 5 |
| Q.11 | Heparin          | 5 |
| Q.12 | Narcotics        | 5 |
| Q.13 | Bronchodilators  | 5 |
| Q.14 | Corticosteroids  | 5 |

### Model Paper

This question paper contains 1 printed page

Semester-IV BOT

BOT23S402

Bio. & Kin. II

### Semester-II Bachelor of Occupational Therapy Examination Month Year

#### Paper – II BIOMECHANICS & KINESIOLOGY-II Maximum Marks: 70

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

#### Long answer question (Attempt any **FOUR** Questions out of **SIX**) **(4x10=40)**

- |   |    |
|---|----|
| Q.1 Describe the biomechanics of gait.  | 10 |
| Q.2 Explain about the gait structure and function in detail.                    | 10 |
| Q.3 Explain the muscles and ligaments of ankle joint. Discuss its biomechanics. | 10 |
| Q.4 explain the biomechanics of patella femoral joint.                          | 10 |
| Q.5 what is Biomechanics of Vertebral Column                                    | 10 |
| Q.6 Describe the general features of hip joint and its function.                | 10 |

#### Short answer question (Attempt any **SIX** Questions out of **EIGHT**) **(6x5=30)**

- |  |   |
|--|---|
| Q.7 Active and passive insufficiency             | 5 |
| Q.8 Type and plane of motion                     | 5 |
| Q.9 Diagram of muscle structure                  | 5 |
| Q.10 Contraction-isometric, eccentric concentric | 5 |
| Q.11 Abnormal gait                               | 5 |
| Q.12 gait deviations                             | 5 |
| Q. 13 Determinants                               | 5 |
| Q. 14 Knee joint                                 | 5 |

## Model Paper

This question paper contains 1 printed page

**Semester-IV BOT  
BOT23S403**

**Com. Med.**

### **Semester-IV Bachelor of Occupational Therapy Examination Year**

#### **Paper – III COMMUNITY MEDICINE**

**Time: Three Hours**

**Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

#### **Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |     |  |    |
|-----|--|----|
| Q.1 | Write definition, importance, golden rules of first aid.   | 10 |
| Q.2 | Explain the causes, degree and general treatment of burns.                                       | 10 |
| Q.3 | Discuss about the respiratory emergencies in details.  | 10 |
| Q.4 | Discuss about the hemorrhage, classification, sign and symptoms and its general treatment.       | 10 |
| Q.5 | Discuss about the transportation of the injured patients.  | 10 |
| Q.6 | Discuss about the definition, type, causes and sign and symptoms and general treatment of shock. | 10 |

#### **Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |      |                              |   |
|------|------------------------------|---|
| Q.7  | Types of fracture            | 5 |
| Q.8  | Treatment of muscle injuries | 5 |
| Q.9  | Asphyxia                     | 5 |
| Q.10 | Artificial respiration       | 5 |
| Q.11 | Wound                        | 5 |
| Q.12 | Rabies                       | 5 |
| Q.13 | DOTS Plus                    | 5 |
| Q.14 | Rehabilitation               | 5 |

## Model Paper

This question paper contains 1 printed page

**Semester-IV BOT  
BOT23S404**

**The. Act. Exc.**

### **Semester-IV Bachelor of Occupational Therapy Examination Month Year**

#### **Paper – IV THERAPEUTIC ACTIVITIES AND EXERCISES Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

#### **Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |   |    |
|---|----|
| Q.1 Describe coordination, definition, assessment in details  | 10 |
| Q.2 Explain about sensation and its classification in detail. | 10 |
| Q.3 Explain perception in details                             | 10 |
| Q.4 Explain in detail about evaluation of cognitive skills    | 10 |
| Q.5 Describe hand splints and its classification in details   | 10 |
| Q.6 Describe memory and its types in details.                 | 10 |

#### **Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |  |   |
|--|---|
| Q 7 cerebellar signs                             | 5 |
| Q.8 extrapyramidal signs                         | 5 |
| Q.9 PRE  | 5 |
| Q.10 Contraction-isometric, eccentric concentric | 5 |
| Q.11 RRE   | 5 |
| Q.12 BRIME                                       | 5 |
| Q. 13 Grip and pinch strength                    | 5 |
| Q.14 Functional anatomy of hand                  | 5 |

## Model Paper

This question paper contains 1 printed page

**Semester-IV BOT  
BOT23S405**

**Com. Med.**

### **Semester-IV Bachelor of Occupational Therapy Examination Month Year**

#### **Paper – V**

#### **COMMUNITY HEALTH (Elective Course)**

**Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

#### **Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

Q.1	Describe Definition, concept & scope of community Health	10
Q.2	Explain about sensation and its classification in detail.	10
Q.3	Explain Epidemiological approach in detail	10
Q.4	Explain in detail about National health planning in India	10
Q.5	Describe Concepts of Primary Health in detail	10
Q.6	Describe Health Agencies and its types in details.	10

#### **Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

Q 7	National cancer control Programme	5
Q.8	Health schemes	5
Q.9	National Health Policy	5
Q.10	National Anti-Malaria Programme	5
Q.11	UNESCO	5
Q.12	Problem solving approach	5
Q 13	Family Planning Association of India (FPAI),	5
Q.14	National AIDS control programme	5

## Model Paper

This question paper contains 1 printed page

**Semester-IV BOT  
BOT23S406**

**Fir. Ad. Emer.**

### **Semester-IV Bachelor of Occupational Therapy Examination Month Year**

#### **Paper – VI**

### **First Aid and Emergency Help (Elective Course)**

**Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |   |    |
|---|----|
| Q.1 explain in detail nervous system and unconsciousness?             | 10 |
| Q.2 Mention the foreign bodies in eye, ear and nose?                  | 10 |
| Q.3 What is Skin? Mention in brief the first aid procedure in burns?  | 10 |
| Q.4. Explain the first aid techniques in bites and stings?            | 10 |
| Q.5 What are wounds and injuries? Explain their types with examples?  | 10 |
| Q.6 Enumerate the significance of basic first aid and its techniques? | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |                                       |   |
|---------------------------------------|---|
| Q.7 Fever and Hypothermia             | 5 |
| Q.8 Blood circulation                 | 5 |
| Q.9 Poisoning                         | 5 |
| Q.10 Swallowed foreign objects        | 5 |
| Q.11 Heat exhaustion                  | 5 |
| Q.12 Respiratory system and breathing | 5 |
| Q.13. Shock                           | 5 |

## Model Paper

This question paper contains 1 printed page  
**Semester-IV BOT**  
**BOT23S407**

**Vis. Med. Dgn.**

**Semester-IV Bachelor of Occupational Therapy**  
**Examination Month Year**

### Paper VII

**Visualization and Media Design (Elective Course)**

**Time: Three Hours**

**Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

Q.1 Explain in detail media Convergence?	10
Q.2 Mention the significance of using social media for news?	10
Q.3 Define Internet and mention its importance?	10
Q.4. Explain the basics of photoshop and InDesign?	0
Q.5 What is the role of social media in Occupational Therapy?	10
Q.6 Enumerate the basics of media design?	10

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

Q.7 Design thinking	5
Q.8 Digital marketing	5
Q.9 Basics of illustrator	5
Q.10 Cyber-crimes	5
Q.11 Media journalist	5
Q.12 Design software	5
Q.13. Design for storytelling	5

## SEMESTER- V

### Paper-I - CLINICAL ORTHOPEDICS -I

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Clinical Orthopedics I -Theory</b>
<b>Course Code</b>	<b>BOT23S501</b>
<b>Course Description</b>	<b>Core Theory</b>
<b>Credit per Semester</b>	<b>4 credits</b>
<b>Hours per Semester</b>	<b>80</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Provide the knowledge about orthopedic conditions the therapist would encounter in their practice.
CO 2	Demonstrate an understanding of orthopedic conditions causing disability, list the etiology, clinical features and methods of investigations and management.
CO 3	Perform a clinical examination & interpret finding of preoperative cold cases & post-operative cases.
CO 4	Read & interpret salient features of X-ray of the spine & extremities and Correlate with the clinical findings and also pathological/ biochemical studies pertaining to Orthopedic Conditions

#### Course of Study

1. Introduction to Orthopedics.
2. Traumatology
  - a) Fracture: definition, types, signs and symptoms. Fracture healing and complications.
  - b) Principles of management.
  - c) Sublimation/ dislocations – definition, signs and symptoms, management
3. Fractures and Dislocations of Upper Limb and lower limb
4. Deformities:

Common congenital and acquired deformities of foot, knee, hip, shoulder, elbow and wrist including hand and spine.
5. Infective conditions and lesion of joints and bones  
Osteomyelitis, tuberculosis, pyogenic infection., T.B. Joints
6. Arthritis  
Osteoarthritis, Rheumatoid arthritis, cervical and lumbar spondylosis, Ankylosing spondylitis.
7. Amputations  
Definition, levels of amputation of both lower and upper limbs, indications, complications.
8. Operative Procedures  
Amputation Common sites, causes & management, Arthroplasty of joints, joint replacement (total and partial), Osteotomy.
9. Regional Conditions
  1. Definition, Clinical features and management of the following regional conditions



- i. Shoulder: Periarthritis shoulder (adhesive capsulitis), Rotator cuff tendinitis
- ii. Elbow: Tennis Elbow, Golfer's Elbow, Olecranon Bursitis (student's elbow). Triceps Tendinitis.
- iii. Wrist and Hand: De Quervain's Tenosynovitis, Ganglion, Trigger Finger/Thumb, Mallet finger, Carpal Tunnel Syndrome, Dupuytren's Contracture.
- iv. Pelvis and Hip: IT Band Syndrome, Piriformis Syndrome
- v. Ankle and Foot: Ankle Sprains, Plantar Fasciitis / Calcaneal Spur, Tarsal Tunnel Syndrome, Achilles Tendinitis

10. Clinical examination of an Orthopedic patient.

- a) Radiological and Imaging techniques in Orthopedics.
- b) Inflammation and repair, soft tissue healing.

## Paper-II - GENERAL MEDICINE

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>General Medicine -Theory</b>
<b>Course Code</b>	<b>BOT23S502</b>
<b>Course Description</b>	<b>Core Theory</b>
<b>Credit per Semester</b>	<b>4 credits</b>
<b>Hours per Semester</b>	<b>80</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Explain etiology, pathophysiology, clinical signs, symptoms & management of cardiovascular, pulmonary and general medical conditions.
CO 2	Acquire knowledge for drugs used in each condition to understand its effect and its medical uses.
CO 3	Describe the Pathophysiology, Signs & Symptoms, Clinical Features, Examination & Management of Common Skin Conditions
CO 4	Describe Etiology, Pathophysiology, Signs &Symptoms &Management of the various Endocrinal, Metabolic, Geriatric& Nutrition Deficiency conditions
CO 5	Describe Etiology, Pathophysiology, Signs & Symptoms, Clinical, Evaluation& Management of the various Rheumatological, Cardiovascular and Respiratory Conditions.

### Course of Study

- (11) Introduction of Medicine.
- (12) Diseases of Respiratory System: Physiology, clinical presentation in relation to diseases, chronic obstructive pulmonary disease
  - (a) Bronchial asthma
  - (b) Pneumonia
  - (c) Bronchiectasis
  - (d) Pleural effusion & Emphysema
  - (e) Pneumothorax
- (13) Diseases of Kidney  
Physiology, clinical presentation in relation to
  - (a) ARF
  - (b) CRF
- (14) Hematological Diseases.  
Physiology, clinical presentation in relation to
  - (a) Hemophilia
  - (b) Anemia
- (15) Endocrine & Metabolic Diseases.
  - (a) Vit. D & Calcium metabolism, Parathyroid gland disorders
- (16) Nutritional Diseases: Physiology, clinical presentation in relation to Obesity
- (17) Connective Tissue Diseases
  - (a) Physiology, clinical presentation in relation to Rheumatoid arthritis
- (18) Gout Infectious Diseases
  - (a) Tetanus
  - (b) Leprosy
- (19) HIV & AIDS

### Paper-III - REHABILITATION MEDICINE- I

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Rehabilitation Medicine I -Theory</b>
<b>Course Code</b>	<b>BOT23S503</b>
<b>Course Description</b>	<b>Core Theory</b>
<b>Credit per Semester</b>	<b>4 credits</b>
<b>Hours per Semester</b>	<b>80</b>

<b>Learning Outcomes: The student will be able to</b>	
CO 1	To make understanding easier about community health in various perspectives.
CO 2	To work for overall prevention of disease.
CO 3	Evaluate the scope of rehabilitation.

#### Course of Study

1. Introduction to Rehabilitation medicine
2. Rehabilitation Team & its members, their role.
3. Definition concerned in the phases of disability process, explanation of its aims & principles. Scope of rehabilitation.
4. Definition concerned with the causes of Impairment, Functional limitation and Disability
5. Disability Prevention. Limitation & Rehabilitation.
6. Legislations for rehabilitation services for the Disabled and P.W.D. acts & Recent Amendments.
7. Community & Rehabilitation including C.B.R. Advantages of C.B.R. over I.B.R.
8. Contribution of Social Worker towards rehabilitation
9. Health care system & Present Rehabilitation Services
10. Principles of Communication & its problems and management.
11. Behavioral problems in the Disabled its principle of management.
12. Architectural barriers possible modifications in relation to different disabled conditions.
13. Achieving functional independence

## Paper-IV – OCCUPATIONAL THERAPY IN ORTHOPAEDICS

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Occupational Therapy in Orthopedics -Theory</b>
<b>Course Code</b>	<b>BOT23S504</b>
<b>Course Description</b>	<b>Core Theory</b>
<b>Credit per Semester</b>	<b>4 credits</b>
<b>Hours per Semester</b>	<b>80</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Identify, discuss & analyze, the Musculoskeletal Conditions in terms of Biomechanical & Kinesiology basis & understand the same with the provisional diagnosis, routine radiological & Electrophysiological investigations & arrive at appropriate functional diagnosis with clinical reasoning.
CO 2	Correlate the same with radiological, electrophysiological, biochemical/hematological investigations as applicable & arrive at the appropriate occupational therapy diagnosis with skillful evaluation of structure and function with clinical reasoning for lower quadrant & lower spine dysfunction.
CO 3	Discuss the clinical manifestations, complications & management of congenital and acquired deformities
CO 4	Perform a clinical examination & interpret finding of preoperative cases & post-operative cases

### Course of Study

#### 1.1 Theory

- (1) Introduction- Brief review of orthopedic conditions.
- (2) Application of occupational therapy principles and techniques in evaluation and treatment of the following orthopedic conditions to include: -
  - (a) Fracture, dislocations and soft tissue injuries – Upper extremity, lower Extremity and spine.
  - (b) Deformities – Congenital and acquired deformities of Upper extremity, lower Extremity and spine.
  - (c) Inflammatory condition of joints and bones. – R.A., Ankylosing spondylitis & other major conditions.
  - (d) Metabolic diseases – Rickets, Osteomalacia Osteoporosis, gout etc.
  - (e) Amputations - Pre & Post operative occupational therapy treatment.
  - (f) Degenerative & Infective conditions-Osteoarthritis of major joints, Spondylosis, Spondylolisthesis, PID, periarthritis Shoulder, T.B. Spine Bone & Major joints, Perthe’s disease , Cumulative Trauma Disorder.
  - (g) Supportive and corrective appliances in the rehabilitation of orthopedic cases.
  - (h) Adapted devices in the rehabilitation of orthopedic case.
  - (i) Activities of daily living, testing and training in A.D.L.
  - (j) Poliomyelitis: Post polio residual paralysis and post polio syndromes.
  - (k) Cerebral palsy reconstructive surgeries including limb lengthening procedure and orthotic management.
  - (l) Total Hip and Knee replacements occupational therapy treatment.
  - (m)Pain Management in Occupational Therapy.

- (3) Functional bracing: Definition, concept of functional bracing, objectives and scientific basis of functional fracture bracing, importance in healing of fractures, advantages over conventional bracing, materials used, indications & contraindication of functional bracing.

### Practical

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Occupational Therapy in Orthopedics -Practical</b>
<b>Course Code</b>	<b>BOT23S504P</b>
<b>Course Description</b>	<b>Core Practical</b>
<b>Credit per Semester</b>	<b>5 credits</b>
<b>Hours per Semester</b>	<b>200</b>

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Course Description</b>	<b>Core Clinical Posting</b>
<b>Credit per Semester</b>	<b>2 credits</b>
<b>Hours per Semester</b>	<b>120</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Explain the, etiology, pathophysiology, clinical manifestations & medical / surgical management of various traumatic & non-traumatic (degenerative, inflammatory, infective, autoimmune) musculoskeletal conditions.
CO 2	interpret investigations such as X-ray of spine & extremities and correlate radiological findings with clinical findings

- (1) Complete evaluation of orthopedic case
- (2) General Viva
- (3) File of case study.

## Paper – V - FINANCIAL MANAGEMENT AND BANKING

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Financial Management and Banking -Theory</b>
<b>Course Code</b>	<b>BOT23S505</b>
<b>Course Description</b>	<b>Elective Theory</b>
<b>Credit per Semester</b>	<b>2 credits</b>
<b>Hours per Semester</b>	<b>45</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Know how to define various terms related to banking
CO 2	Understand various types of loans and banking deposits
CO 3	Able to understand the financial markets and mutual funds.

### Course of Study

- A. Basics of savings and investment
- B. Power of compounding
- C. Government tax saving schemes
- D. Banking Deposits and their types
- E. Loans and its types
- F. Banking structure and functionality
- G. Financial markets
- H. Mutual funds
- I. Protection policies

## Paper – VI - TEACHING LEARNING PROCESS

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Teaching Learning Process -Theory</b>
<b>Course Code</b>	<b>BOT23S506</b>
<b>Course Description</b>	<b>Elective Theory</b>
<b>Credit per Semester</b>	<b>2 credits</b>
<b>Hours per Semester</b>	<b>45</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Know how to define various terms related to learning process
CO 2	Understand various methods of lesson planning
CO 3	Able to understand Legislations for education of differently abled

### Course of Study

- A. Concept and nature of teaching- learning process
- B. Maxims of teaching
- C. Learner centred approaches
- D. Lesson Planning
- E. Concept of organization and management
- F. Qualities of teacher
- G. Duties and responsibilities of teacher and head
- H. Inclusive education
- I. Strategies to promote inclusive education
- J. Legislations for education of differently abled

## Paper – VII- GENDER SENSITISATION

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Gender Sensitisation - Theory</b>
<b>Course Code</b>	<b>BOT23S507</b>
<b>Course Description</b>	<b>Elective Theory</b>
<b>Credit per Semester</b>	<b>2 credits</b>
<b>Hours per Semester</b>	<b>45</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Know how to define gender
CO 2	Understand various stereotypes and problems related to gender in society
CO 3	Able to understand Gender equality and women empowerment

### COURSE OF STUDY

- A. Introduction to gender sensitization
- B. Gender and Sex
- C. Social construction of gender
- D. Gender in life cycle approach
- E. Gender stereotypes
- F. Gender division of labour
- G. Gender hierarchy and power politics
- H. Sexuality - Personal boundaries and Power
- I. Sexual Harassment at workplaces (Campus)
- J. Ending violence against girls/women: Advancing safety and rights
- K. Gender equality and women empowerment
- L. Role of college women development cell



## Model Paper

This question paper contains 1 printed page

**Semester-V BOT**

**BOT23S501**

**Clin. Ortho -I**

**Semester-V Bachelor of Occupational Therapy**

**Examination Month Year**

**Paper-I**

**CLINICAL ORTHOPAEDICS-I**

**Time: Three Hours**

**Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |     |  |    |
|-----|--|----|
| Q.1 | What is rheumatoid arthritis? Discuss its causes, deformities involved treatment                             | 10 |
| Q.2 | Discuss the cause, pathology, type and general treatment of osteomyelitis.                                   | 10 |
| Q.3 | What are the different congenital deformities? Discuss the general treatment                                 | 10 |
| Q.4 | Discuss about the infective conditions in detail.  | 10 |
| Q.5 | Write about the Amputation and its management in details   | 10 |
| Q.6 | Write the difference between fracture and subluxation, write the types of fracture and its general treatment | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |      |                             |   |
|------|-----------------------------|---|
| Q.7  | Periarthritis shoulder      | 5 |
| Q.8  | Swan-neck deformity         | 5 |
| Q.9  | Ankylosis Spondylitis       | 5 |
| Q.10 | Cervical spondylosis        | 5 |
| Q.11 | De Quervain's Tenosynovitis | 5 |
| Q.12 | Carpal Tunnel Syndrome      | 5 |
| Q.13 | Piriformis Syndrome         | 5 |
| Q.14 | Arthroplasty of joints      | 5 |

## Model Paper

This question paper contains 1 printed page

**Semester V BOT**  
**BOT23S502**

**Gen. Med.**

### **Semester-V Bachelor of Occupational Therapy** **Examination Month Year**

#### **Paper-II** **GENERAL MEDICINE**

**Time: Three Hours**

**Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |     |   |    |
|-----|---|----|
| Q.1 | Discuss the respiratory disease in details                              | 10 |
| Q.2 | Describe causes, symptoms and general treatment of bronchitis           | 10 |
| Q.3 | Define hypertension, discuss its clinical feature and goals of therapy. | 10 |
| Q.4 | Discuss about the auto-immune disease in detail.                        | 10 |
| Q.5 | Describe infectious disease in details                                  | 10 |
| Q.6 | What is leprosy? Discuss its etiology, type and pathogenesis            | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |       |                      |   |
|-------|----------------------|---|
| Q.7   | Pneumonia            | 5 |
| Q. 8  | CRF                  | 5 |
| Q. 9  | tetanus              | 5 |
| Q. 10 | Myocardial infection | 5 |
| Q. 11 | Anemia               | 5 |
| Q. 12 | DVT                  | 5 |
| Q. 13 | Diabetes             | 5 |
| Q. 14 | Renal failure        | 5 |

## Model Paper

This question paper contains 1 printed page  
**Semester V BOT**  
**BOT23S503**

**Rehab. Med.-I**

**Semester- V Bachelor of Occupational Therapy**  
**Examination Month Year**

**Paper-III**  
**REHABILITATION MEDICINE I**  
**Time: Three Hours**  
**Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book  
All the parts of one question should be answered at one place.  
Different part of one question should not be answered at different places in the answer book.  
Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |     |   |    |
|-----|---|----|
| Q.1 | Discuss the rehabilitation team and its member and their role   | 10 |
| Q.2 | Discuss the Architectural barriers possible modifications in relation to different disabled conditions in detail. | 10 |
| Q.3 | Write about Health care system in details.  | 10 |
| Q.4 | Write about the Disability Prevention. Limitation & Rehabilitation  | 10 |
| Q.5 | Discuss about the Scope of rehabilitation.  | 10 |
| Q.6 | Discuss about the principles of communication and its problem and management                                      | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |       |  |   |
|-------|--|---|
| Q.7   | Impairment, functional limitation and disability     | 5 |
| Q. 8  | Advantages of C.B.R.                                 | 5 |
| Q. 9  | Behavioral problems in the Disabled                  | 5 |
| Q. 10 | Prosthesis and orthosis                              | 5 |
| Q. 11 | Present Rehabilitation Services                      | 5 |
| Q. 12 | functional independence                              | 5 |
| Q. 13 | P.W.D. acts  | 5 |
| Q. 14 | Contribution of Social Worker towards rehabilitation | 5 |

## Model Paper

This question paper contains 1 printed page  
Semester-V BOT  
BOT23S504

OT in Ortho.

### Semester-V Bachelor of Occupational Therapy Examination Month Year

#### Paper- IV OCCUPATIONAL THERAPY IN ORTHOPEDICS

Time: Three Hours  
Maximum Marks: 70

Student shall be allowed to take only one supplementary copy along with one main answer book  
All the parts of one question should be answered at one place.  
Different part of one question should not be answered at different places in the answer book.  
Draw diagrams wherever necessary

**Long answer question** (Attempt any **FOUR** Questions out of **SIX**) **(4x10=40)**

- |     |  |    |
|-----|--|----|
| Q.1 | Write the role of occupational therapy in orthopedic conditions.                       | 10 |
| Q.2 | What is role of occupational therapy in Ankyloses spondylitis?                         | 10 |
| Q.3 | What are the deformities in Rheumatoid Arthritis explain?                              | 10 |
| Q.4 | Discuss the occupational therapy role in post operative amputation.                    | 10 |
| Q.5 | What is Poliomyelitis? Write its cause, pathology and occupational therapy management. | 10 |
| Q.6 | Discuss the role of occupational therapy in pain management.                           | 10 |

**Short answer question** (Attempt any **SIX** Questions out of **EIGHT**) **(6x5=30)**

- |       |   |   |
|-------|---|---|
| Q.7   | Adaptive device used in orthopedic condition            | 5 |
| Q. 8  | Congenital anomalies                                    | 5 |
| Q. 9  | Role of occupational therapy in metabolic disease       | 5 |
| Q. 10 | Role of occupational therapy in peri arthritis          | 5 |
| Q. 11 | Cumulative trauma disorder                              | 5 |
| Q. 12 | Rickets   | 5 |
| Q. 13 | Scoliosis   | 5 |
| Q. 14 | Role of occupational therapy in post fracture stiffness | 5 |

## Model Paper

This question paper contains 1 printed page

**Semester-V BOT  
BOT23S505**

**Fin. Mgt. Bank**

**Semester-V Bachelor of Occupational Therapy  
Examination Month Year**

**Paper – V**

**FINANCIAL MANAGEMENT AND BANKING (Elective Course)**

**Time: Three Hours**

**Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |  |    |
|--|----|
| Q.1 Explain in detail about the financial markets?       | 10 |
| Q.2 Mention the basics of saving and investment?         | 10 |
| Q.3 Define mutual funds and explain its importance?      | 10 |
| Q.4. Explain the different protection policies?          | 10 |
| Q.5 Define loans and mention its types?                  | 10 |
| Q.6 Enumerate the various government tax saving schemes? | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |                            |   |
|----------------------------|---|
| Q.7 Banking structure      | 5 |
| Q.8 Power of compounding   | 5 |
| Q.9 Banking deposits       | 5 |
| Q.10 Banking functionality | 5 |
| Q.11 Investment            | 5 |
| Q.12 Cons of mutual funds  | 5 |
| Q.13. Income tax           | 5 |
| Q14. Pros of mutual funds  | 5 |

## Model Paper

This question paper contains 1 printed page  
Semester-V BOT  
BOT23S506

Tech. Ler. Proc.

Semester-V Bachelor of Occupational Therapy  
Examination Month Year  
Paper – VI  
**TEACHING LEARNING PROCESS (Elective Course)**  
**Time: Three Hours**  
Maximum Marks: 70

Student shall be allowed to take only one supplementary copy along with one main answer book  
All the parts of one question should be answered at one place.  
Different part of one question should not be answered at different places in the answer book.  
Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |  |    |
|--|----|
| Q.1 Explain in detail the qualities of a teacher?                  | 10 |
| Q.2 Mention the duties and responsibilities of teacher?            | 10 |
| Q.3 Define and classify inclusive education?                       | 10 |
| Q.4. Explain the strategies to promote inclusive education?        | 10 |
| Q.5 Discuss about the lesson planning?                             | 10 |
| Q.6 Enumerate the legislations for education of differently abled? | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |   |   |
|---|---|
| Q.7 Maxims of teaching                      | 5 |
| Q.8 Concept of teaching                     | 5 |
| Q.9 Learner centered approaches             | 5 |
| Q.10 Nature of teaching                     | 5 |
| Q.11 Duties and responsibilities of head    | 5 |
| Q.12 Learning process                       | 5 |
| Q.13 Concept of organization and management | 5 |
| Q14. Teaching Process                       | 5 |

## Model Paper

This question paper contains 1 printed page

**Semester-V BOT  
BOT23S507**

**Gen.Sen**

**Semester-V Bachelor of Occupational Therapy  
Examination Month Year**

### **Paper – VII**

### **GENDER SENSITIZATION (Elective Course)**

**Time: Three Hours**

**Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |   |    |
|---|----|
| Q.1 What is gender sensitization? Explain its importance?   | 10 |
| Q.2 Comment – “Sexuality-personal boundaries and power”?    | 10 |
| Q.3 What are the basic gender stereotypes?                  | 10 |
| Q.4. Explain the role of college women development cell?    | 10 |
| Q.5 What is gender hierarchy and power politics?            | 10 |
| Q.6 Enumerate the significance of gender division of labor? | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |  |   |
|--|---|
| Q.7 Gender Equality                      | 5 |
| Q.8 Gender in life cycle approach        | 5 |
| Q.9 Differentiate between gender and sex | 5 |
| Q.10 Women Empowerment                   | 5 |
| Q.11 Ending violence against girls/women | 5 |
| Q.12 Social construction of gender       | 5 |
| Q.13. Sexual harassment at workplaces    | 5 |
| Q14. Genders                             | 5 |

## Semester-VI

### Paper- I – CLINICAL ORTHOPEDICS -II

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Clinical Orthopedics II -Theory</b>
<b>Course Code</b>	<b>BOT23S601</b>
<b>Course Description</b>	<b>Core Theory</b>
<b>Credit per Semester</b>	<b>3 credits</b>
<b>Hours per Semester</b>	<b>60</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Provide the knowledge about orthopaedic conditions the therapist would encounter in their practice.
CO 2	Demonstrate an understanding of orthopaedic conditions causing disability, list the etiology, clinical features and methods of investigations and management.
CO 3	Perform a clinical examination & interpret finding of preoperative cold cases & post- operative cases.
CO 4	Read & interpret salient features of X-ray of the spine & extremities and Correlate with the clinical findings and also pathological/ biochemical studies pertaining to Orthopaedic Conditions

#### Course of study

1. Bone and joint tumors- classification, clinical features and management of benign and malignant bone and joint tumors.
2. Peripheral nerve injuries-their management.
3. Trauma and trauma care.
4. Reconstructive surgeries for rehabilitation of Poliomyelitis, Leprosy, crush injuries
5. Principle of Tendon transfer and its procedure.
6. Sports injuries and its management.
7. Hand Injuries
  - i. Mechanism of injury, clinical features, and management of the following - Crush injuries. Flexor and extensor injuries. Burn injuries
8. Neck and Low back ache, Sciatica, PIVD, brachial neuralgia etc.
9. Syndromes
  - i. Cervico brachial syndrome. Thoracic outlet syndrome.
10. Neuromuscular Disorders
  - i. Cerebral palsy, Poliomyelitis, Spinal Dysraphism, Leprosy.
11. Cervical and Lumbar Pathology
  - i. Prolapsed intervertebral disc (PID), Spondylosis (cervical and lumbar) Spondylolysis, Spondylolisthesis, spinal stenosis.



## Paper-II- CLINICAL PEDIATRICS

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Clinical Pediatrics -Theory</b>
<b>Course Code</b>	<b>BOT23S602</b>
<b>Course Description</b>	<b>Core Theory</b>
<b>Credit per Semester</b>	<b>4 credits</b>
<b>Hours per Semester</b>	<b>80</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Know how to define various terms related to pediatrics.
CO 2	Understand various condition related to pediatrics along with their clinical features, investigations, diagnosis, and treatment
CO 3	Able to understand the normal child development, examine primitive reflexes.

### Course of study

- (1) Describe growth and development of child from birth to 12 year including physical, social, adaptive development.
- (2) Cerebral palsy: Define and briefly outline etiology of prenatal, per-natal and postnatal causes, briefly mention pathogenesis, types of cerebral palsy (Classification), findings on examination, general examination of C.N.S, Musculoskeletal and respiratory system.
- (3) Outline the immunization schedule for children.
- (4) Briefly outline associated defects: Mental retardation, microcephaly, blindness, hearing and speech impairment, squint and convulsions.
- (5) Prevention: Appropriate management of high-risk pregnancies, prevention of neonatal and postnatal infections, metabolic problems.
- (6) Muscular Dystrophy: Outline various forms, modes of inheritance and clinical manifestation, physical finding in relation to disabilities progression of various forms and prognosis. Describe treatment goals in forms which are fatal and which are not fatal.
- (7) Spina bifida, meningomyelocele: Outline development, clinical features lower limbs, bladder and bowel control, complications UTI & hydrocephalus.
- (8) Still's disease: Classification, pathology in brief, physical findings, course & prognosis. Outline treatment, prevention and correction of deformity.
- (9) Acute C.N.S. infections: Classify (Bacterial and viral) and outline the acute illness & Physiology, clinical presentation.
- (10) Normal diet of new born and child: List dietary calorie, fat, protein, mineral and vitamin requirement in a normal child and in a child with malnutrition.
- (11) Lung infections: Physiology, clinical presentation in relation to bronchiectasis, lung abscess and bronchial asthma, cystic fibrosis
- (12) Intensive pediatric care & Physiology, clinical presentation.

### Paper-III – REHABILITATION MEDICINE – II

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Rehabilitation Medicine II -Theory</b>
<b>Course Code</b>	<b>BOT23S603</b>
<b>Course Description</b>	<b>Core Theory</b>
<b>Credit per Semester</b>	<b>4 credits</b>
<b>Hours per Semester</b>	<b>80</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Describe physiological changes in geriatrics with multisystem review to evaluate and plan rehabilitation program
CO 2	Identify environmental stress factors in industries, plan injury prevention program, physiological restoration, and rehabilitation for effective return to work management.
CO 3	Prescribe and train for appropriate prosthesis and orthosis based on dysfunction of wrist and hand complex
CO 4	Acquire ethical skills by demonstrating safe and effective performance of physical handling techniques taking into account patient's clinical condition, need for privacy, resources available and environment

#### Course of Study

1. Vocational evaluation & Goals for disabled, role of Vocational Counselor.
2. Rural rehabilitation incorporated with Primary Health Centre
3. Occupational rehabilitation
4. Concepts in geriatric rehabilitation
5. Disability evaluation
6. Visual disability: Definition and classification, mobility techniques, communication skills, prevention of blindness.
7. Socio-economic Rehabilitation:
8. Outline of Social and Vocational Counseling
9. Discuss methods and team involvement in pre-vocational evaluation and training.
10. Functional Assessment scales & its clinical uses eg, functional independent measure, Gross Motor Function, VAS, ASIA, BBS, Modified Ashworth score.
11. Ethics
  - a) The implications of and confirmation to the roles of professional conduct
  - b) Legal responsibility for their actions in the professional context and understanding liability and obligations in case of medico legal action
  - c) A wider knowledge of ethics relating to current social and medical policy in the provision of health care
12. Prosthesis and Orthosis
  - a) Definition and Basic Principles
  - b) Designing and Construction of Upper & Lower extremity Orthosis & Spinal Orthosis.
  - c) Prescription and design of footwear & its modification
  - d) Wheel Chair: Components of wheel chair; assessment of wheel chair; measurement for wheel chair; WHO Guideline, features of sports wheel chair, Wheelchair Mobility
  - e) Ambulatory Aids & Assistive Devices
  - f) Measurement and P.O.P. cast techniques

## Paper-IV – OCCUPATIONAL THERAPY IN PEDIATRICS

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Occupational Therapy in Pediatrics-Theory</b>
<b>Course Code</b>	<b>BOT23S604</b>
<b>Course Description</b>	<b>Core Theory</b>
<b>Credit per Semester</b>	<b>4 credits</b>
<b>Hours per Semester</b>	<b>80</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Describe various disorders and diseases in pediatrics with multisystem review to evaluate and plan rehabilitation program
CO 2	Learn various frame of references and treatment approaches used in Occupational Therapy.
CO 3	Prescribe and train for appropriate Occupational Therapy Intervention for specific areas of dysfunction
CO 4	Acquire ethical skills by demonstrating safe and effective performance of physical handling techniques taking into account patient's clinical condition, need for privacy, resources available and environment

### Course of Study

#### Psychological Aspects

- (1) Psychological aspects of hospitalization, and Occupational therapy role.

#### Treatment Approaches

- (1) Play Therapy.

#### Frames of References

- (1) Bobath NDT.
- (2) Rood's neuromuscular facilitation.
- (3) Ayre's Sensory Integration Approach.
- (4) Biomechanical frame of reference
- (5) Developmental FOR
- (6) Peto's - conductive Education.
- (7) PNF

#### Occupational Therapy Application

- (1) Cardio respiratory conditions of childhood.
- (2) Cerebral palsy
- (3) Visuo- perceptual and Visuo- motor dysfunction
- (4) Muscular dystrophy
- (5) Erb's palsy
- (6) Poliomyelitis
- (7) Spina bifida and hydrocephalus.
- (8) Arthrogryphosis and other congenital orthopaedic disorders.
- (9) Stills disease.
- (10) Early intervention for congenital neurological disorders (High risk infants)
- (11) Nutritional disorders,
- (12) Mental retardation and Down's syndrome.
- (13) Congenital Syndromes and Chromosomal abnormalities
- (14) Specific learning disabilities

- (15) Pervasive Developmental Disorder
- (16) Attention Deficit Hyperactivity Disorder
- (17) Behaviour disorders.
- (18) Visual / auditory loss.
- (19) Speech and communication disorders.
- (20) Acquired Immuno Deficiency Syndrome.
- (21) Seizure disorders
- (22) Haemophilia
- (23) NICU

**Occupational Therapy Intervention for specific areas of dysfunction**

- (1) Oromotor dysfunction
- (2) Pre writing and writing skills
- (3) Psychosocial dysfunction
- (4) Postural Control
- (5) Developmental aspects of childhood.
  - (a) Physical, emotional intellectual and social development of the child.
  - (b) Theories of development
  - (c) Guide for development testing.
  - (d) Average development achievement. (From birth to 10-year age)

**Practical**

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Occupational Therapy in Pediatrics-Practical</b>
<b>Course Code</b>	<b>BOT23S604P</b>
<b>Course Description</b>	<b>Core Practical</b>
<b>Credit per Semester</b>	<b>5 credits</b>
<b>Hours per Semester</b>	<b>200</b>

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Course Description</b>	<b>Core Clinical Posting</b>
<b>Credit per Semester</b>	<b>3 credits</b>
<b>Hours per Semester</b>	<b>180</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Describe various disorders and diseases in pediatrics with multisystem review to evaluate and plan rehabilitation program
CO 2	Involve various frame of references and treatment approaches used in Occupational Therapy.
CO 3	Prescribe appropriate Occupational Therapy Intervention for specific areas of dysfunction

- (1) Complete evaluation of pediatrics case
- (2) General viva
- (3) File of case study.

## Paper- V - CONSTITUTION OF INDIAN

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Constitution of Indian -Theory</b>
<b>Course Code</b>	<b>BOT23S605</b>
<b>Course Description</b>	<b>Elective Theory</b>
<b>Credit per Semester</b>	<b>2 credits</b>
<b>Hours per Semester</b>	<b>45</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Understand the Meaning of the term 'Constitution' & Making of the Indian Constitution
CO 2	Learn Fundamental Rights and Duties their content and significance.
CO 3	Understand about Constitution and Sustainable Development in India.

### Course of Study

- A. Meaning of the term 'Constitution'. Making of the Indian Constitution 1946- 1950.
- B. The democratic institutions created by the constitution Bicameral system of Legislature at the Centre and in the States.
- C. Fundamental Rights and Duties their content and significance.
- D. Directive Principles of States Policies the need to balance Fundamental Rights with Directive Principles.
- E. Special Rights created in the Constitution for: Dalits, Backwards, Women and Children and the Religious and Linguistic Minorities.
- F. Doctrine of Separation of Powers legislative, Executive and Judicial and their functioning in India.
- G. The Election Commission and State Public Service commissions.
- H. Method of amending the Constitution.
- I. Enforcing rights through Writs:
- J. Constitution and Sustainable Development in India.

## Paper- VI - UNIVERSAL HUMAN VALUES

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Universal Human Values -Theory</b>
<b>Course Code</b>	<b>BOT23S606</b>
<b>Course Description</b>	<b>Elective Theory</b>
<b>Credit per Semester</b>	<b>2 credits</b>
<b>Hours per Semester</b>	<b>45</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Understand the Meaning of basic universal human values.
CO 2	Learn about various forms of services.
CO 3	Understand about righteousness and peace

### Course of Study

#### Love & Compassion

- A. Introduction: What is love? Forms of love—for self, parents, family, friend, spouse, community, nation, humanity and other beings, both for living and non-living, Love and compassion and inter-relatedness, Love, compassion, empathy, sympathy and non-violence, Individuals who are remembered in history for practicing compassion and love. Narratives and anecdotes from history, literature including local folklore , Practicing love and compassion: What will learners learn gain if they practice love and compassion? What will learners lose if they don't practice love and compassion?, Sharing learner's individual and/or group experience(s) Simulated Situations Case studies

#### Truth

- A. Introduction: What is truth? Universal truth, truth as value, truth as fact (veracity, sincerity, honesty among others), Individuals who are remembered in history for practicing this value, Narratives and anecdotes from history, literature including local folklore, Practicing Truth: What will learners learn/gain if they practice truth? What will learners lose if they don't practice it?, Learners' individual and/or group experience(s) Simulated situations Case studies

#### Non-Violence

- A. Introduction: What is non-violence? Its need. Love, compassion, empathy sympathy for others as pre- requisites for non-violence, Ahimsa as non-violence and non-killing, Individuals and organizations that are known for their commitment to nonviolence, Narratives and anecdotes about non-violence from history, and literature including local folklore, Practicing non-violence: What will learners learn/gain if they practice nonviolence? What will learners lose if they don't practice it? , Sharing learner's individual and/or group experience(s) about non-violence, Simulated situations Case studies

#### Righteousness & Peace

- A. Introduction: What is righteousness? ,Righteousness and dharma, Righteousness and Propriety, Individuals who are remembered in history for practicing righteousness, Narratives and anecdotes from history, literature including local folklore ,reciting righteousness: What will learners learn/gain if they practice righteousness? What will learners lose if they don't practice it?, Sharing learners' individual and/or group experience(s), Simulated situations, Case studies ,Introduction: What is peace? Its need, relation with harmony and balance, Individuals and organizations that are known for their commitment to peace, Narratives and Anecdotes about peace from history, and literature including local folklore, practicing peace: What will learners learn/gain if they practice peace? What will learners lose if they don't practice it? ,Sharing learner's individual and/or group experience(s) about peace ,Simulated situations, Case studies,

### **Service & Renunciation (Sacrifice)**

- A. Introduction: What is service? Forms of service, for self, parents, family, friend, spouse, community, nation, humanity and other beings—living and non-living, persons in distress or disaster. Individuals who are remembered in history for practicing this value. Narratives and anecdotes dealing with instances of service from history, literature including local folklore. Practicing service: What will learners learn/gain gain if they practice service? What will learners lose if they don't practice it? Sharing learners' individual and/or group experience(s) regarding service. Simulated situations. Case studies Introduction: What is renunciation? Renunciation and sacrifice. Self-restrain and Ways of overcoming greed. Renunciation with action as true renunciation Individuals who are remembered in history for practicing this value., Narratives and anecdotes from history and literature, including local folklore about individuals who are remembered for their sacrifice and renunciation., Practicing renunciation and sacrifice: What will learners learn/gain if they practice Renunciation and sacrifice? What will learners lose if they don't practice it? , Sharing learners' individual and/or group experience(s), Simulated situations Case studies

## Paper- VII - PROFESSIONALISM AND VALUES

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Professionalism and Values -Theory</b>
<b>Course Code</b>	<b>BOT23S607</b>
<b>Course Description</b>	<b>Elective Theory</b>
<b>Credit per Semester</b>	<b>2 credits</b>
<b>Hours per Semester</b>	<b>45</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Understand the Difference between professional and personal values.
CO 2	Learn about code of conduct, professional accountability and responsibility
CO 3	Understand about attitude and behavior and cultural issues in the healthcare environment.

### Course of Study

- A. **Professional values-** Integrity, Objectivity, Professional competence and due care, Confidentiality
- B. **Personal values-** ethical or moral values
- C. **Attitude and behavior-** professional behavior, treating people equally
- D. Code of conduct , professional accountability and responsibility, misconduct
- E. Differences between professions and importance of team efforts
- F. Cultural issues in the healthcare environment



## Model Paper

This question paper contains 1 printed page

Semester-VI BOT

BOT23S601

Clin. Ortho- II

Semester-VI Bachelor of Occupational Therapy  
Examination Month Year

### Paper-I

#### CLINICAL ORTHOPAEDICS-II

Time: Three Hours

Maximum Marks: 70

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

**Long answer question** (Attempt any **FOUR** Questions out of **SIX**) **(4x10=40)**

- |     |  |    |
|-----|--|----|
| Q.1 | What is Cerebral Palsy? Discuss its causes, deformities involved and treatment | 10 |
| Q.2 | Discuss the cause, pathology, type and general treatment of poliomyelitis      | 10 |
| Q.3 | What are the different causes of low back pain? Discuss the general treatment  | 10 |
| Q.4 | Discuss about the hand injuries in detail.                                     | 10 |
| Q.5 | Write about the leprosy in details   | 10 |
| Q.6 | Write the various sports injuries and its management.                          | 10 |

**Short answer question** (Attempt any **SIX** Questions out of **EIGHT**) **(6x5=30)**

- |       |                              |   |
|-------|------------------------------|---|
| Q.7   | Sciatica                     | 5 |
| Q.8   | PIVD                         | 5 |
| Q.9   | spinal stenosis.             | 5 |
| Q.10  | Cervical spondylosis         | 5 |
| Q.11  | Principle of Tendon transfer | 5 |
| Q.12  | Peripheral nerve injuries    | 5 |
| Q. 13 | Joint tumors                 | 5 |
| Q. 14 | Burn injuries                | 5 |

**Model Paper**

This question paper contains 1 printed page

**Semester-VI BOT  
BOT23S602**

**Clin. Ped**

**Semester-VI - Bachelor of Occupational Therapy  
Examination Month Year**

**Paper-II**

**CLINICAL PEDIATRICS**

**Time: Three Hours**

**Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |     |   |    |
|-----|---|----|
| Q.1 | Discuss growth and development of child from birth to 5 year in details       | 10 |
| Q.2 | Describe causes, symptoms and general treatment of cerebral palsy             | 10 |
| Q.3 | Define muscular dystrophy, discuss its clinical feature and goals of therapy. | 10 |
| Q.4 | Discuss about the still's disease in detail.                                  | 10 |
| Q.5 | Describe lung infections in details   | 10 |
| Q.6 | What is mental retardation. Discuss its etiology, type and pathogenesis       | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |       |                          |   |
|-------|--------------------------|---|
| Q.7   | bacterial infection      | 5 |
| Q. 8  | neonatal infections      | 5 |
| Q. 9  | viral infections         | 5 |
| Q. 10 | Normal diet of new born  | 5 |
| Q. 11 | intensive pediatric care | 5 |
| Q. 12 | spina bifida             | 5 |
| Q. 13 | meningomyelocele         | 5 |
| Q. 14 | microcephaly             | 5 |

**Model Paper**

This question paper contains 1 printed page

**Semester-VI BOT  
BOT23S603**

**Rehab. Med**

**Semester-VI - Bachelor of Occupational Therapy  
Examination Month Year**

**Paper-III**

**REHABILITATION MEDICINE III**

**Time: Three Hours**

**Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |     |   |    |
|-----|---|----|
| Q.1 | Discuss the Occupational rehabilitation their role                              | 10 |
| Q.2 | Discuss the geriatric rehabilitation in detail.                                 | 10 |
| Q.3 | Write about vocational evaluation in details.                                   | 10 |
| Q.4 | Write about the disability evolution  | 10 |
| Q.5 | Discuss about the functional assessment scales                                  | 10 |
| Q.6 | Discuss methods and team involvement in pre-vocational evaluation and training. | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |       |                         |   |
|-------|-------------------------|---|
| Q.7   | Vocational Counseling   | 5 |
| Q. 8  | Assistive Device        | 5 |
| Q. 9  | Ethics                  | 5 |
| Q. 10 | Prosthesis and orthosis | 5 |
| Q. 11 | Visual disability       | 5 |
| Q. 12 | Wheel chair             | 5 |
| Q. 13 | Ambulatory aids         | 5 |
| Q. 14 | Rural rehabilitation    | 5 |

**Model Paper**

This question paper contains 1 printed page

**Semester-VI BOT**

**BOT23S604**

**OT in Ped.**

**Semester-VI - Bachelor of Occupational Therapy  
Examination Month Year**

**Paper – IV**

**Occupational Therapy in Pediatrics**

**Time: Three Hours**

**Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |     |  |    |
|-----|--|----|
| Q.1 | Discuss the normal development from birth to five years.                     | 10 |
| Q.2 | What is role of OT in NICU?  | 10 |
| Q.3 | Discuss the various Frame of Reference in OT used in pediatric conditions.   | 10 |
| Q.4 | What is cerebral palsy? Discuss its causes, types & OT treatment.            | 10 |
| Q.5 | Discuss the role of OT in pediatric conditions.                              | 10 |
| Q.6 | What is Spina Bifida? Describe its type with diagrams & discuss its OT role. | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |       |  |   |
|-------|--|---|
| Q.7   | Parvasive developmental disorder                               | 5 |
| Q. 8  | Early intervention   | 5 |
| Q. 9  | Role of occupational therapy in oromotor dysfunction           | 5 |
| Q. 10 | Role of occupational therapy in pre-writing and writing skills | 5 |
| Q. 11 | Postural control   | 5 |
| Q. 12 | Learning disability  | 5 |
| Q. 13 | PNF  | 5 |
| Q. 14 | Still disease  | 5 |

## Model Paper

This question paper contains 1 printed page

**Semester VI BOT**  
**BOT23S605**

**Cons. Of Ind.**

**Semester VI Bachelor of Occupational Therapy**  
**(Main) Examination Month year**

### **Paper – V**

### **CONSTITUTION OF INDIA (Elective Course)**

**Time: Three Hours**

**Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |  |    |
|--|----|
| Q.1 Explain in detail about fundamental rights and duties?   | 10 |
| Q.2 Mention the methods of amending the constitution   | 10 |
| Q.3 Define constitution and discuss its importance?  | 10 |
| Q.4. Describe in detail about special rights created in the constitution for Dalits and backwards? | 10 |
| Q.5 Discuss about making of the Indian Constitution?   | 10 |
| Q.6 Enumerate the need to balance Fundamental Rights with Directive Principles?                    | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |   |   |
|---|---|
| Q.7 Judiciary   | 5 |
| Q.8 Special rights created in the constitution for women and children | 5 |
| Q.9 Enforcing rights through Writs                                    | 5 |
| Q.10 Election Commission  | 5 |
| Q.11 Bicameral system of Legislature                                  | 5 |
| Q.12 Legislation  | 5 |
| Q.13 State Public Service Commissions                                 | 5 |

## Model Paper

This question paper contains 1 printed page  
Semester VI BOT  
BOT23S606

Uni. Hum. Val.

**Semester VI - Bachelor of Occupational Therapy**  
**(Main) Examination Month year**  
**Paper – VI**  
**UNIVERSAL HUMAN VALUES (Elective Course)**  
**Time: Three Hours**  
**Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book  
All the parts of one question should be answered at one place.  
Different part of one question should not be answered at different places in the answer book.  
Draw diagrams wherever necessary

**Long answer question** (Attempt any **FOUR** Questions out of **SIX**) **(4x10=40)**

- |     |   |    |
|-----|---|----|
| Q.1 | What is love? Explain Forms of love                                 | 10 |
| Q.2 | Discuss What is non-violence? and its type.                         | 10 |
| Q.3 | Discuss Ahimsa as non-violence and non-killing                      | 10 |
| Q.4 | What will learners lose if they don't practice love and compassion? | 10 |
| Q.5 | What will learners learn/gain gain if they practice service?        | 10 |
| Q.6 | What is peace? Its need, relation with harmony and balance          | 10 |

**Short answer question** (Attempt any **SIX** Questions out of **EIGHT**) **(6x5=30)**

- |       |   |   |
|-------|---|---|
| Q.7   | Universal truth                                   | 5 |
| Q. 8  | humanity  | 5 |
| Q. 9  | Righteousness and Propriety                       | 5 |
| Q. 10 | Renunciation and sacrifice                        | 5 |
| Q. 11 | Narratives and Anecdotes about peace from history | 5 |
| Q. 12 | empathy& sympathy                                 | 5 |
| Q. 13 | Forms of service                                  | 5 |
| Q. 14 | Righteousness and dharma                          | 5 |

## Model Paper

This question paper contains 1 printed page

**Semester VI BOT**  
**BOT23S607**

**Prof. Val.**

**Semester VI Bachelor of Occupational Therapy**  
**Examination Month year**

### **Paper – VII** **PROFESSIONALISM AND VALUES (Elective Course)**

**Time: Three Hours**

**Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |     |  |    |
|-----|--|----|
| Q.1 | Discuss the structure and function of Professional values.             | 10 |
| Q.2 | Discuss Personal values and its type.                                  | 10 |
| Q.3 | Discuss the Cultural issues in the healthcare environment.             | 10 |
| Q.4 | Explain about Code of conduct.   | 10 |
| Q.5 | Explain Differences between professions and importance of team efforts | 10 |
| Q.6 | Discuss the type of professional behavior.                             | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |       |                             |   |
|-------|-----------------------------|---|
| Q.7   | healthcare environment      | 5 |
| Q. 8  | moral values                | 5 |
| Q. 9  | Professional competence     | 5 |
| Q. 10 | misconduct                  | 5 |
| Q. 11 | Confidentiality             | 5 |
| Q. 12 | due care                    | 5 |
| Q. 13 | professional accountability | 5 |
| Q. 14 | Attitude and behavior       | 5 |

## SEMESTER – VII

### Paper-I – CLINICAL NEUROLOGY

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Clinical Neurology -Theory</b>
<b>Course Code</b>	<b>BOT23S701</b>
<b>Course Description</b>	<b>Core Theory</b>
<b>Credit per Semester</b>	<b>3 credits</b>
<b>Hours per Semester</b>	<b>60</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Development of clinical problem-solving skills.
CO 2	Describe neuro-anatomy, neurophysiology and medical management of neurological conditions
CO 3	Acquisition of the clinical application of basic knowledge of the nervous system.
CO 4	Development of communication skill that will facilitate the clinical interaction with patients with neurological disorders and their family.

#### Course of Study

1. Classification of neurological involvement depending on level of lesion.
2. Deafness, vertigo, and imbalance: Physiology of hearing, disorders of hearing, examination & investigations of hearing, tests of vestibular function, vertigo, peripheral vestibular disorders, central vestibular vertigo.
3. Infections of brain and spinal cord: Etiology, pathophysiology, classification, clinical signs & symptoms, investigations, differential diagnosis, medical management, surgical management and complications of following disorders – Meningitis, Encephalitis, Poliomyelitis and Post-polio syndrome.
4. Movement disorders: Definition, etiology, risk factors, pathophysiology, classification, clinical signs & symptoms, investigations, differential diagnosis, medical management, surgical management and complications of following disorders – Parkinson's disease, Dystonia, Chorea, Ballism, Athedosis, Tics, Myoclonus and Wilson's disease.
5. Motor neuron diseases: - Etiology, pathophysiology, classification, clinical signs & symptoms, investigations, differential diagnosis, medical management, and complications of following disorders - Amyotrophic lateral sclerosis, Spinal muscular atrophy, Hereditary bulbar palsy.
6. Multiple sclerosis - Etiology, pathophysiology, classification, clinical signs & symptoms, investigations, differential diagnosis, medical management, and complications.
7. Cerebro-vascular diseases: Classification of stroke – Ischemic, hemorrhagic, venous infarcts. Risk factors, cause of ischemic stroke, causes of hemorrhagic stroke. Classification of hemorrhagic stroke, classification of stroke based on symptoms, stroke syndrome, investigations, differential diagnosis, medical management.
8. Disorders of neuromuscular junction – Etiology, classification, signs & symptoms, investigations, management, of following disorders Myasthenia gravis & Botulism.
9. Polyneuropathy – Classification of Polyneuropathies, Hereditary motor sensory neuropathy, hereditary sensory and Autonomic neuropathies, acute idiopathic Polyneuropathies. Guillain-Barre syndrome – Causes, clinical features, management of GBS, Chronic Idiopathic Polyneuropathies, diagnosis of polyneuropathy, nerve biopsy.



## Paper-II – GENERAL SURGERY INCLUDING Plastic Surgery & CTVS

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>General Surgery Including OBS Gynae I -Theory</b>
<b>Course Code</b>	<b>BOT23S702</b>
<b>Course Description</b>	<b>Core Theory</b>
<b>Credit per Semester</b>	<b>3 credits</b>
<b>Hours per Semester</b>	<b>60</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	The student will have a general understanding of the surgical conditions the therapist would encounter in their practice
CO 2	The student will be able to list the indications for surgery, etiology, clinical features and surgical methods for various conditions.

### Course of Study

#### Theory

##### General Surgery

- (1) Principles of Pre and postoperative management of surgical patients.
- (2) Common pre and post operative complications.
- (3) Shock - definition, types, clinical features, pathology and management
- (4) Hemorrhage- common sites, complication, clinical features and management.
- (5) Surgical intensive care.
- (6) Description of events frequently accompanying in general anesthesia, blood transfusion and physiological response of the body to surgery.
- (7) Abdominal surgery: Incisions, complications and management of various abdominal surgeries.
- (8) Wounds and wound infections, Sinuses and ulcers.
- (9) Burns: Degrees of burns and, management and reconstructive surgery following burns and complications of Burns.

#### Plastic Surgery

- (1) Principles of cineplasty, tendon transplant, cosmetic surgery, types of grafts, surgery of hand with emphasis on management of trauma and leprosy.

#### Cardiothoracic Surgery

Conservative and surgical management of the following conditions

- (1) Ischemia heart disease
- (2) Myocardial infarction
- (3) Heart failure
- (4) Cardiac arrest
- (5) Rheumatic fever
- (6) Hypertension
- (7) Infective endocarditis
- (8) Myocarditis & cardiomyopathy

### Paper- III - OCCUPATIONAL THERAPY IN NEUROLOGY & NEUROSURGERY

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Occupational Therapy in Neurology &amp; Neurosurgery - Theory</b>
<b>Course Code</b>	<b>BOT23S703</b>
<b>Course Description</b>	<b>Core Theory</b>
<b>Credit per Semester</b>	<b>4 credits</b>
<b>Hours per Semester</b>	<b>80</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Describe neuro-anatomy, neurophysiology and Occupational therapy management of neurological conditions
CO 2	Describe various Occupational Therapy approaches in neurological and neurosurgical conditions

#### Course of Study

##### A. Frame of references:

- l. Brunnstrom
- m. Motor relearning program
- n. Motor control

##### B. Conditions:

- (1) Acute infection of nervous system-Encephalitis, meningitis, Transverse myelitis, neuro-syphilis, Tabes dorsalis.
- (2) Cerebral palsy, hydrocephalus.
- (3) Poliomyelitis
- (4) Cerebro – vascular accidents.
- (5) TBI
- (6) Epilepsy.
- (7) Common affection of peripheral, spinal & cranial nerves, Myasthenia gravis.
- (8) Myopathy & Muscular dystrophies.
- (9) Lesion- pyramidal and extra pyramidal, cerebellar systems, cortical lesion, vestibular.
- (10) Motor neuron diseases.
- (11) Degenerative Neurological conditions, Parkinsonism, syringomyelia, Chorea-athetosis.
- (12) Multiple sclerosis.
- (13) Peripheral N. injuries & Neuropathies.
- (14) Dysphagia
- (15) Spinal cord tumours & Spinal Cord Injury
- (16) Cognitive Perceptual deficit and rehab
- (17) Breif applications
  - a) NDT
  - b) PNF
  - c) Vestibular Rehab

##### Neurosurgery:

- (1) Pre & post operative occupational therapy management of neurosurgery conditions and complications following nerve repairs / nerve grafting.

- (2) Pre & post operative occupational Therapy management in head injury, brain tumor, craniotomy.
- (3) Management of pain syndrome.

### Practical

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Occupational Therapy in Neurology &amp; Neurosurgery - Practical</b>
<b>Course Code</b>	<b>BOT23S703P</b>
<b>Course Description</b>	<b>Core Practical</b>
<b>Credit per Semester</b>	<b>5 credits</b>
<b>Hours per Semester</b>	<b>200</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Demonstrate proficiency at performing an appropriately focused and reliable neurological examination including cranial nerves, motor function, sensation, reflexes, coordination and gait.
CO 2	Demonstrate various occupational therapy approaches in neurological and neurosurgical conditions

- (1) Complete evaluation of neurological & neurosurgical case
- (2) General viva
- (3) File of case study.

## Paper-IV – OCCUPATIONAL THERAPY IN MEDICAL & SURGICAL CONDITION

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Occupational Therapy in Medical &amp; Surgical Condition - Theory</b>
<b>Course Code</b>	<b>BOT23S704</b>
<b>Course Description</b>	<b>Core Theory</b>
<b>Credit per Semester</b>	<b>4 credits</b>
<b>Hours per Semester</b>	<b>80</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Explain Occupational therapy measures with appropriate clinical reasoning to improve general surgical & medical condition including Occupational therapy for burns.
CO 2	Explain Occupational therapy objectives and functions in various medical conditions like arthritis, leprosy, CVA, hemophilia, and geriatric conditions.
CO 3	Explain Occupational therapy measures in Various surgical conditions including plastic surgery

### Course of Study

#### Occupational Therapy in Medical Conditions

- (1) Introduction – Brief review of medical condition and treatment and role of Occupational Therapy in the rehabilitation of patient with various diseases.
- (2) Methods of evaluation in Occupational Therapy.
- (3) Therapeutic activities techniques & Frame of reference in Occupational Therapy.
- (4) Aims and Principal of Occupational Therapy.
- (5) Objective and function of Occupational Therapy in
  - i. Arthritic conditions
  - ii. Leprosy
  - iii. Cerebro-Vascular accidents.
  - iv. Cardiac – diseases (congenital and acquired)
  - v. Geriatric condition
  - vi. Cerebral palsy, minimal cerebral dysfunction – perceptual motor dysfunctions in a brain – damaged child
  - vii. HIV
  - viii. Pulmonary condition.
  - ix. Hemophilia.
- (6) Assessment and diagnostic functions of Occupational Therapy.
- (7) Home care programme in severely disabled and A.D.L. in adults.

#### Occupational Therapy in Surgical Conditions

- (1) Introduction – Brief review of surgical conditions
- (2) Methods of evaluation in Occupational Therapy.
  - a) Role of Occupational Therapy
  - b) Hand injures – emphasis or rehabilitation of Hand and reconstruction.
  - c) Thoracic surgery – Pre and postoperative management in respect of rehabilitation.
  - d) Plastic surgery – basic principal and applications.
  - e) Supportive and corrective application in the rehabilitation of surgical case.
  - f) Adaptive devices in the rehabilitation of surgical cases.

- g) Activities of daily living testing and training in A.D.L.
- h) Burns: Define the term “Burns”, classify burns depending on various aspect, describe stage of burns explain role of O.T. in burns patients including assessment, describe O.T. treatment in pre graft post graft & rehab phase.
- i) Cancer rehabilitation: Describe preventive, restorative, supportive and palliative aspects in radical mastectomy and head and neck cancer. Explain the concept of hospice, family systems and the need for treatment of the family as the unit care.
- j) Vascular Condition: Explain peripheral vascular diseases their complications & role of O.T. in their management.

### Practical

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Occupational Therapy in Medical &amp; Surgical Condition - Practical</b>
<b>Course Code</b>	<b>BOT23S704P</b>
<b>Course Description</b>	<b>Core Practical</b>
<b>Credit per Semester</b>	<b>4 credits</b>
<b>Hours per Semester</b>	<b>160</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Demonstrate Occupational therapy measures with appropriate clinical reasoning to improve general surgical & medical condition including Occupational therapy for burns.
CO 2	Demonstrate Occupational therapy objectives and functions in various medical conditions like arthritis, leprosy, CVA, hemophilia, and geriatric conditions.
CO 3	Demonstrate Occupational therapy measures in Various surgical conditions including plastic surgery

- (1) Assessment planning and management of occupational therapy in medical and surgical conditions
- (2) General viva
- (3) File of case study

## Paper – V – OBS & GYNAE

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Obs &amp; Gynae -Theory</b>
<b>Course Code</b>	<b>BOT23S705</b>
<b>Course Description</b>	<b>Elective Theory</b>
<b>Credit per Semester</b>	<b>2 Credits</b>
<b>Hours per Semester</b>	<b>45</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Understand the Anatomy of pelvic organs
CO 2	Learn about Pregnancy, labour and their stages
CO 3	Understand about Menstrual cycle and its effects on body

### Course of study

- (1) Anatomy of pelvic organs- mechanism & physiology of pelvic floor sphincter muscles.
- (2) Pregnancy – stage of pregnancy
- (3) Labour – stage of Labour – delivery
- (4) Menopause effects in emotions and musculo-skeletal system & common gynecological disorders.
- (5) Menstrual cycle and its effects on body
- (6) Diet and nutrition during pregnancy

## PAPER- VI - YOGA INTERVENTION IN GERIATRIC DISORDERS

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Yoga Intervention in Geriatric Disorders - Theory</b>
<b>Course Code</b>	<b>BOT23S706</b>
<b>Course Description</b>	<b>Elective Theory</b>
<b>Credit per Semester</b>	<b>2 credits</b>
<b>Hours per Semester</b>	<b>45</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Understand about various geriatric disorders
CO 2	Learn about yoga and its importance in treating these disorders
CO 3	Demonstrate the therapeutic measures

### Course of study

- Chronic obstructive pulmonary disease (COPD)
- Alzheimer's disease and dementia
- Heart failure
- Chronic kidney disease (CKD)
- Diabetes
- Ischemic heart disease (or coronary heart disease)
- Arthritis
- High cholesterol
- Hypertension (high blood pressure)
- Osteoporosis
- Osteoarthritis

## Paper – VII- YOGA INTERVENTION IN GYNAECOLOGICAL DISORDERS

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Yoga Intervention in Gynecological Disorders -Theory</b>
<b>Course Code</b>	<b>BOT23S707</b>
<b>Course Description</b>	<b>Elective Theory</b>
<b>Credit per Semester</b>	<b>2 credits</b>
<b>Hours per Semester</b>	<b>45</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Understand about various gynecological disorders
CO 2	Learn about yoga and its importance in treating these disorders
CO 3	Demonstrate the therapeutic measures

### Course of Study

Yoga intervention for gynecological disorders

1. Dysmenorrhea or painful menstruation
2. Leucorrhea (excess white vaginal discharge)
3. Amenorrhea or absence of period
4. Polycystic ovarian syndrome (PCOS)
5. Fibroids
6. Endometriosis
7. Pelvic inflammatory disease
8. Vaginitis
9. Menopause



## Model Paper

This question paper contains 1 printed page

**Semester VII BOT**

**BOT23S701**

**Cl. Neur.**

**Semester VII Bachelor of Occupational Therapy  
Examination Month Year**

### **Paper-I**

#### **CLINICAL NEUROLOGY**

**Time: Three Hours**

**Maximum Marks :70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |     |   |    |
|-----|---|----|
| Q.1 | Discuss the structure and function of brain with diagrams.          | 10 |
| Q.2 | Discuss cerebral palsy and its type. Write about general treatment. | 10 |
| Q.3 | Discuss the neuro physiology of tone and disorders of tone.         | 10 |
| Q.4 | Explain about peripheral nerve injury discuss its management.       | 10 |
| Q.5 | Explain about syringomyelia. Discuss its management.                | 10 |
| Q.6 | Discuss the type of stroke and its general management.              | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |       |                        |   |
|-------|------------------------|---|
| Q.7   | Visual pathways        | 5 |
| Q. 8  | Cerebellum             | 5 |
| Q. 9  | Tumors                 | 5 |
| Q. 10 | Tuberculosis           | 5 |
| Q. 11 | Hydrocephalus          | 5 |
| Q. 12 | Traumatic brain injury | 5 |
| Q. 13 | Cerebral Palsy         | 5 |
| Q. 14 | Meningocele            | 5 |

## Model Paper

This question paper contains 1 printed page

**Semester VII BOT**

**BOT23S702**

**Gen. Surg.**

**Semester VII Bachelor of Occupational Therapy  
Examination Month Year**

### Paper-II

## GENERAL SURGERY INCLUDING PLASTIC SURGERY AND CTVS

**Time: Three Hours**

**Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |     |  |    |
|-----|--|----|
| Q.1 | Discuss the principles of pre and post operative management of surgical patients.            | 10 |
| Q.2 | Define shock. Discuss its types, clinical feature, pathology and its management.             | 10 |
| Q.3 | Discuss about the common sites, complication, clinical feature and management of hemorrhage. | 10 |
| Q.4 | Discuss about the cardiothoracic surgery in detail.  | 10 |
| Q.5 | Write about the Burns, Degrees of burns and, management                                      | 10 |
| Q.6 | Explain about the plastic surgery in details.  | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |       |                           |   |
|-------|---------------------------|---|
| Q.7   | Massive Blood Transfusion | 5 |
| Q. 8  | Abdominal Surgeries       | 5 |
| Q. 9  | Wound                     | 5 |
| Q.10  | Surgical intensive care   | 5 |
| Q. 11 | General anesthesia        | 5 |
| Q. 12 | Artificial Blood          | 5 |
| Q. 13 | Fresh Frozen Plasma       | 5 |
| Q. 14 | Tissue Expanders          | 5 |

## Model Paper

This question paper contains 1 printed page

Semester VII BOT  
BOT23S703

OT in Neuro & Neur. Surg.

Semester VII - Bachelor of Occupational Therapy  
Examination Month Year

### Paper- III OCCUPATIONAL THERAPY IN NEUROLOGICAL & NEUROSURGICAL CONDITIONS

Time: Three Hours  
Maximum Marks: 80

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

**Long answer question** (Attempt any **FOUR** Questions out of **SIX**) **(4x10=40)**

- |     |   |    |
|-----|---|----|
| Q.1 | Write the role of occupational therapy in neurological conditions.              | 10 |
| Q.2 | Discuss cerebral palsy. What are the types of CP and discuss the OT role in it. | 10 |
| Q.3 | What is Poliomyelitis? Describe its deformities and discuss the OT role in it.  | 10 |
| Q.4 | What is a cerebro-vascular accident? Discuss the cause, type & OT role in it.   | 10 |
| Q.5 | What is Myasthenia Gravis? Describe its various symptoms and its OT management. | 10 |
| Q.6 | Discuss the OT role in Parkinsonism.  | 10 |

**Short answer question** (Attempt any **SIX** Questions out of **EIGHT**) **(6x5=30)**

- |       |   |   |
|-------|---|---|
| Q.7   | Multiple sclerosis                                      | 5 |
| Q. 8  | Role of occupational therapy in neurological conditions | 5 |
| Q. 9  | Role of occupational therapy in nerve repair            | 5 |
| Q. 10 | Traumatic brain injury                                  | 5 |
| Q. 11 | Pain syndrome   | 5 |
| Q. 12 | Peripheral nerve injuries                               | 5 |
| Q. 13 | Multiple sclerosis                                      | 5 |
| Q. 14 | Role of occupational therapy in nerve repair            | 5 |

## Model Paper

This question paper contains 1 printed page

Semester VII BOT

BOT23S704

OT in Med. & Surg. Cond.

Semester VII Bachelor of Occupational Therapy

Examination Month Year

### Paper-IV

## OCCUPATIONAL THERAPY IN MEDICAL & SURGICAL CONDITIONS

**Time: Three Hours**

Maximum Marks: 70

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

**Long answer question** (Attempt any **FOUR** Questions out of **SIX**) **(4x10=40)**

- |     |   |    |
|-----|---|----|
| Q.1 | Discuss the OT role in Medical and Surgical conditions.                               | 10 |
| Q.2 | What is rheumatoid arthritis? Describe its deformities and discuss the OT management. | 10 |
| Q.3 | Discuss the OT role in geriatrics.  | 10 |
| Q.4 | Discuss the OT management in pulmonary conditions.                                    | 10 |
| Q.5 | Describe cerebral vascular accidents. Describe the OT role in it.                     | 10 |
| Q.6 | Discuss the OT role in HIV conditions.  | 10 |

**Short answer question** (Attempt any **SIX** Questions out of **EIGHT**) **(6x5=30)**

- |       |   |   |
|-------|---|---|
| Q.7   | Myocardial infection                            | 5 |
| Q. 8  | Role of occupational therapy in plastic surgery | 5 |
| Q. 9  | Development milestones                          | 5 |
| Q. 10 | Amputation                                      | 5 |
| Q. 11 | Role of occupational therapy in oncology        | 5 |
| Q. 12 | Traumatic brain injury                          | 5 |
| Q. 13 | HIV   | 5 |
| Q. 14 | ADL and assessment tools                        | 5 |

## Model Paper

This question paper contains 1 printed page  
**Semester VII BOT**  
**BOT23S705**

**Obs. Gyn.**

### **Semester VII Bachelor of Occupational Therapy** **Examination Month Year**

#### **Paper-V** **OBS & GYNAE (Elective Course)** **Time: Three Hours** **Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

#### **Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |     |  |    |
|-----|--|----|
| Q.1 | Discuss the Anatomy of pelvic organs                       | 10 |
| Q.2 | What is Labour and explain in detail about stage of Labour | 10 |
| Q.3 | Discuss the Menstrual cycle and its effects on body        | 10 |
| Q.4 | Discuss the Pregnancy and its stages.                      | 10 |
| Q.5 | Describe physiology of pelvic floor sphincter muscles.     | 10 |
| Q.6 | Discuss the Diet and nutrition during pregnancy            | 10 |

#### **Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |       |                      |   |
|-------|----------------------|---|
| Q.7   | Menstrual cycle      | 5 |
| Q. 8  | Ovulation            | 5 |
| Q. 9  | Gestation            | 5 |
| Q. 10 | Nutrition            | 5 |
| Q. 11 | Parturition          | 5 |
| Q. 12 | Lactation            | 5 |
| Q. 13 | Pelvic Organs        | 5 |
| Q. 14 | Pelvic floor muscles | 5 |

## Model Paper

This question paper contains 1 printed page  
**Semester VII BOT**  
**BOT23S706**

**Yoga. Int. Gert.**

### **Semester VII Bachelor of Occupational Therapy** **Examination Month Year**

#### **Paper-VI**

#### **YOGA INTERVENTION IN GERIATRIC DISORDERS (Elective Course)**

**Time: Three Hours**

**Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

#### **Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |     |  |    |
|-----|--|----|
| Q.1 | Discuss about Chronic obstructive pulmonary disease (COPD)   | 10 |
| Q.2 | What is chronic kidney disease (CKD) and explain its stages. | 10 |
| Q.3 | Discuss the High cholesterol and its effects on body         | 10 |
| Q.4 | Discuss about Polycystic ovarian syndrome (PCOS)?            | 10 |
| Q.5 | Describe physiology of Diabetes                              | 10 |
| Q.6 | Discuss about Hypertension and its management.               | 10 |

#### **Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |       |                        |   |
|-------|------------------------|---|
| Q.7   | Osteoarthritis         | 5 |
| Q. 8  | Heart failure          | 5 |
| Q. 9  | Osteoporosis           | 5 |
| Q. 10 | Dementia               | 5 |
| Q. 11 | Arthritis              | 5 |
| Q. 12 | Alzheimer's disease    | 5 |
| Q. 13 | Asthma                 | 5 |
| Q 14. | Ischemic heart disease | 5 |

## Model Paper

This question paper contains 1 printed page  
**Semester VII BOT**  
**BOT23S707**

**Yoga Int. Gyn**

**Semester VII Bachelor of Occupational Therapy**  
**Examination Month Year**

### Paper-VII

**YOGA INTERVENTION IN GYNECOLOGICAL DISORDERS (Elective Course)**

**Time: Three Hours**

**Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |     |  |    |
|-----|--|----|
| Q.1 | Discuss the Anatomy of pelvic organs                                   | 10 |
| Q.2 | What is Dysmenorrhea and explain in detail about stage of Dysmenorrhea | 10 |
| Q.3 | Discuss the Menstrual cycle and its effects on body                    | 10 |
| Q.4 | Discuss about Polycystic ovarian syndrome (PCOS)?                      | 10 |
| Q.5 | Describe physiology of Menopause                                       | 10 |
| Q.6 | Discuss the Pelvic inflammatory disease                                | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |       |   |   |
|-------|---|---|
| Q.7   | Menstrual cycle                               | 5 |
| Q. 8  | Fibroids                                      | 5 |
| Q. 9  | Amenorrhea                                    | 5 |
| Q. 10 | Vaginitis                                     | 5 |
| Q. 11 | Leucorrhea                                    | 5 |
| Q. 12 | Endometriosis                                 | 5 |
| Q. 13 | Pelvic Organs                                 | 5 |
| Q. 14 | Yoga intervention for gynecological disorders | 5 |

## SEMESTER-VIII

### Paper – I – CLINICAL NEUROSURGERY

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Clinical Neurosurgery -Theory</b>
<b>Course Code</b>	<b>BOT23S801</b>
<b>Course Description</b>	<b>Core Theory</b>
<b>Credit per Semester</b>	<b>4 credits</b>
<b>Hours per Semester</b>	<b>80</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Describe procedures followed during neuro-surgery, effects of surgical trauma & anesthesia in general surgery
CO 2	Assess and treat medically managed patients with neurological dysfunction, perform pre-operative evaluation of patient undergoing neurosurgery, describe indications for various surgical approaches, apply treatment techniques to manage patient postoperatively, Describe post-operative complication during and following neurosurgery
CO 3	To assess and treat patients in Neurosurgical Intensive Care

#### Course of study

1. Lower cranial nerve paralysis – Etiology, clinical features, investigations, and management of following disorders - lesions in trigeminal nerve, trigeminal neuralgia, trigeminal sensory neuropathy, lesions in facial nerve, facial palsy, bell's palsy, hemi facial spasm, Glossopharyngeal neuralgia, lesions of Vagus nerve, lesions of spinal accessory nerve, lesions of hypoglossal nerve.
2. Head injury: Etiology, classification, clinical signs & symptoms, investigations, differential diagnosis, medical management, surgical management and complications.
3. Higher cortical, neuro psychological and neurobehavioral disorders: Causes of blackouts, physiological nature of Epilepsy, classification, clinical features, investigations, medical & surgical management of following disorders – Non-epileptic attacks of childhood, Epilepsy in childhood, Seizures, and Epilepsy syndromes in adult.
4. Spinal cord disorders: Functions of tracts, definition, etiology, risk factors, pathophysiology, classification, clinical signs & symptoms, investigations, differential diagnosis, medical management, surgical management and complications of following disorders – Spinal cord injury, Compression by IVD prolapse, Spinal epidural abscess, Transverse myelitis, Viral myelitis, Syringomyelia, Spina bifida, Hereditary spastic paraplegia, Radiation myelopathy, Progressive encephalomyelitis, Conus medullaris syndrome, Bladder & bowel dysfunction.
5. Brain tumors and spinal tumors: Classification, clinical features, investigations, medical and surgical management.
6. Focal peripheral neuropathy: Clinical diagnosis of focal neuropathy, neurotmesis, Axonotmesis, Neuropraxia. Etiology, risk factors, classification, neurological signs & symptoms, investigations, management, of following disorders –Brachial plexus palsy, Thoracic outlet syndrome, Lumbosacral plexus lesions, Phrenic & Intercostal nerve lesions, Median nerve palsy, Ulnar nerve palsy, Radial nerve palsy, Axillary nerve palsy, Long thoracic nerve palsy,



Suprascapular nerve palsy, Sciatic nerve palsy, Tibial nerve palsy, Common peroneal nerve palsy.

7. Introduction, Indications and Complications of following Neuro surgeries: Craniotomy, Cranioplasty, Stereotactic surgery, Deep brain stimulation, Burr-hole, Shunting, Laminectomy, Hemilaminectomy, Rhizotomy, Microvascular decompression surgery.
8. Neurogenic Bladder-Classification-management
9. Surgical management of brain disease and CVA.
10. Neuro-surgical Intensive care

## Paper-II - PSYCHIATRY

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Psychiatry -Theory</b>
<b>Course Code</b>	<b>BOT23S802</b>
<b>Course Description</b>	<b>Core Theory</b>
<b>Credit per Semester</b>	<b>3 credits</b>
<b>Hours per Semester</b>	<b>60</b>

### Course Learning Outcomes: The student will be able to

CO 1	Describe various psychiatric disorders with special emphasis to movement / Pain & ADL
CO 2	Explain the importance of psychological status of the person in health & disease; Environmental & emotional influence on the mind & personality
CO 3	Apply skills required for good interpersonal communication
CO 4	Describe pathological & etiological factors, signs /symptoms & management of Various psychiatric conditions

### Course of study

- (1) History taking in psychiatry including mental examination and assessment and its types in details.
- (2) Functional units of mind, Id ego and super ego - Their functions and interactions.
- (3) Role of defense mechanisms in normal and abnormal behavior.
- (4) psychological services (eg. child guidance, counselling services)
- (5) Criteria for classification and definition of psychiatric illness.
- (6) Description of the various clinical syndromes including etiology, clinical features, course, treatment, and prognosis.
  - a. Schizophrenic and other Psychotic disorders
  - b. Mood disorders
  - c. Anxiety disorder including Phobias
  - d. Somatoform disorders
  - e. Dissociative disorders
  - f. Factitious disorders
  - g. Eating and sleep disorders
  - h. Psychosomatic illness
  - i. Personality disorders
  - j. Substance related disorders
  - k. Sexual dysfunction and gender identity disorders
  - l. Psychiatric disorders of childhood
  - m. Psychiatric disorders of adolescence
  - n. Psychiatric disorders of old age
- (7) Methods of treatment:
  - (a) Individual and group psychotherapy
  - (b) Physical Methods: ECT and related side effects.

### Paper-III - ADVANCE OCCUPATIONAL THERAPY IN REHABILITATION

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Advance Occupational Therapy in Rehabilitation -Theory</b>
<b>Course Code</b>	<b>BOT23S803</b>
<b>Course Description</b>	<b>Core Theory</b>
<b>Credit per Semester</b>	<b>4 credits</b>
<b>Hours per Semester</b>	<b>80</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Describe various advances in occupational therapy
CO 2	Apply skills required for hospice care
CO 3	Learn the significance of various adjunctive therapies and its effect on patients
CO 4	Understand role of occupational therapy in sports medicine, blindness and deafness
CO5	Understand the recent advances in tele rehabilitation and its need and significance

#### Course of Study

- (1) Quality assurance and quality control
- (2) Fiscal management
- (3) Service delivery model
- (4) Hospice care.
- (5) Occupational therapy in health promotion and wellness programme.
- (6) Occupational therapy management in stress.
- (7) Occupational therapy role in cardiopulmonary dysfunction.
- (8) Adjunctive therapy,
  - (a) Biofeedback.
  - (b) Physical agent modalities.
  - (c) Yoga.
  - (d) Virtual reality
  - (e) Robotics
  - (f) Functional electrical stimulation
- (9) Tele Rehabilitation
- (10) Role of occupational therapy in sports medicine.
- (11) Occupational Therapy in Blind: Describe the role that the senses play in person's life & in the process of rehabilitation, define the term blindness, refute common misconception about blindness, describe the emotional, physical & psychological needs of blind person and explain preventive measures.
- (12) Occupational Therapy in deaf, dumb: Explain development of auditory perception, define and classify deafness, Enumerate causes of deafness, types of hearing aids, communication skills, Facilities for the deaf-mute, functional and vocational rehabilitation, explain preventive measures, describe vestibular affections and re-training.

## Paper-IV – OCCUPATIONAL THERAPY IN MENTAL HEALTH

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Occupational Therapy in Mental Health -Theory</b>
<b>Course Code</b>	<b>BOT23S804</b>
<b>Course Description</b>	<b>Core Theory</b>
<b>Credit per Semester</b>	<b>4 credits</b>
<b>Hours per Semester</b>	<b>80</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Describe various psychiatric disorders with special emphasis to ADL
CO 2	Apply skills required for good interpersonal communication
CO 3	Understand the significance of various therapeutic groups and role of occupational therapy in different psychiatric setups
CO 4	Learn various frame of references and treatment approaches of occupational therapy to treat of patients with mental illness.

### Course of Study

1. Frames of Reference & treatment techniques of psychiatric conditions:
  - (a) Cognitive behavior.
  - (b) Behavioural and behavior modification
  - (c) Psychoanalytical.
  - (d) Model of Human Occupation in Mental Health
  - (e) Therapeutic use of self.
  - (f) Projective techniques.
  - (g) Cognitive disability.
2. Describe in detail the assessment of a client including specific methods used in the following:
  - (a) Observation.
  - (b) Interest checklist.
  - (c) Interview.
  - (d) Personality questionnaire.
  - (e) ADL
  - (f) Vocational and Pre-vocational
  - (g) Social dysfunction rating scales – to learn any one scale
3. Counseling: Guidelines and practical demonstration.
4. Discuss OT assessment, treatment aims, plan and methods of treatment for the following conditions:
  - (a) Schizophrenic and other Psychotic disorders
  - (b) Mood disorders
  - (c) Anxiety disorder including Phobias
  - (d) Somatoform disorders
  - (e) Dementia
  - (f) Conversion and dissociate reaction
  - (g) Obsessive Compulsive disorder.
  - (h) Psychotic aspects of AIDS
  - (i) Eating and sleep disorders
  - (j) Psychosomatic illness
  - (k) Personality disorders

- (l) Substance related disorders
5. Review psychiatric problems of childhood and apply OT principles and techniques.
6. Outline the types of therapeutic groups and briefly discuss the value of group therapy in psychiatry.
  - (a) Group Therapy.
  - (b) Arts & activity Therapy.
  - (c) Recreational Therapy.
  - (d) Attitude Therapy.
  - (e) Industrial Therapy.
  - (f) Music Therapy.
  - (g) Milieu Therapy
  - (h) Psychotherapy
7. Outline the following psychiatric setups and the role of OT in each.
  - (a) Therapeutic community
  - (b) Half Way Homes
  - (c) Geriatric units.
  - (d) Sheltered workshops
  - (e) Day care centers.
  - (f) Government mental hospitals and psychiatric institutions
  - (g) Family therapy units
  - (h) Psychiatric rehabilitation

### Practical

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Occupational Therapy in Mental Health -Practical</b>
<b>Course Code</b>	<b>BOT23S804P</b>
<b>Course Description</b>	<b>Core Practical</b>
<b>Credit per Semester</b>	<b>5 credits</b>
<b>Hours per Semester</b>	<b>200</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Describe and evaluate various psychiatric disorders with special emphasis to ADL
CO 2	Apply skills required for good interpersonal communication
CO 3	Understand the significance of role of occupational therapy in different psychiatric setups
CO 4	Demonstrate various frame of references and treatment approaches of occupational therapy to treat of patients with mental illness.

### Practical

- (2) Various techniques of Occupational Therapy for the above-mentioned condition/diseases shall be demonstrated and practical by the students.
- (3) Help students to identify their client's psychiatric problems in relation to the practical situations observed in OT. Eg. Restlessness manifesting as decreased concentration and attention.

**Paper-V – RESEARCH METHODOLOGY & BIOSTATICS**  
**\*(NON-UNIVERSITY EXAM) \***

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Research Methodology &amp; Biostatistics -Theory</b>
<b>Course Code</b>	<b>BOT23S805</b>
<b>Course Description</b>	<b>Core Theory</b>
<b>Credit per Semester</b>	<b>3 credits</b>
<b>Hours per Semester</b>	<b>60</b>

**Course content:**

**I. Research Methodology: -**

1. Stages of research process
2. Scales of measurement
3. Reliability and validity
4. Developing and defining a research question
5. Literature review
6. Data Collection
7. Informed consent
8. Research design:
  - A. Quantitative (epidemiological)
    - a. Experiment (clinical, field, community)
    - b. Observational
      - i. Cohort
      - ii. Case control
      - iii. Cross sectional study
      - iv. Ecological study
  - B. Qualitative Research Method (Sociological)
9. Ethical issues
10. Critical Appraisal of a research report

**I. Biostatistics**

1. Epidemiological measures of disease frequency
2. Graphical determination
3. Probability and Probability distribution (Binominal and normal)
4. Sampling and sampling techniques.
5. Type one and type two errors
6. Confidence interval
7. Tests of significance (for large sample and small sample)
  - T Test
  - Z Test
  - Chi square test
8. Non-parametric tests (where to use, sign test and Mann –Whitney U test)
9. Correlation and Regression
10. Hypothesis testing
11. Epi info

## Paper- VI- PULMONARY FUNCTION TESTS

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Pulmonary Function Tests- Theory</b>
<b>Course Code</b>	<b>BOT23S806</b>
<b>Course Description</b>	<b>Elective Theory</b>
<b>Credit per Semester</b>	<b>2 credits</b>
<b>Hours per Semester</b>	<b>45</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Explain about Pulmonary function tests and their importance
CO 2	Become familiar with various capacities and volumes

### Course of Study

- A. Spirometry
- B. Lung Volumes
- C. Diffusion Capacity
- D. Maximal Voluntary Ventilation (MVV)
- E. Maximal Inspiratory Pressure (Pi max)
- F. Maximal Expiratory Pressure (Pe max)
- G. Arterial Blood Gas (ABG)
- H. Walking Oxymetry
- I. Bronchochallenge Tests

## Paper- VII- CLINICAL NUTRITION

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Clinical Nutrition- Theory</b>
<b>Course Code</b>	<b>BOT23S807</b>
<b>Course Description</b>	<b>Elective Theory</b>
<b>Credit per Semester</b>	<b>2 Credits</b>
<b>Hours per Semester</b>	<b>45</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Become familiar about the nutritive values of food.
CO 2	Explain about the food sources from which we obtain vitamins.
CO 3	Become familiar with various compositions of food.
CO 4	Well versed with digestion at each stages of digestive system.
CO 5	Become familiar with different cooking methodologies.
CO 6	Know and explain about food preparations by food manufacturer.
CO 7	Explain thoroughly about the advantages and disadvantages of various convenience foods

### Course of Study

#### SOURCES OF FOOD

- (1) Nutritive value of foods,
- (2) Food Sources from which key vitamins are derived

#### DIGESTIVE SYSTEM

- (1) Digestion and absorption –Digestion at each stage of the digestive system
- (2) Dietary guidelines- Factors affecting food requirements. Planning and serving of family meals. Meals for all ages and occupations.

#### COMPOSITION OF FOOD

Composition and value of the main foods in the diet - Milk, meat, fish, cheese, eggs, margarine and butter cereals (wheat, rice, maize, millets, oats) fruits and vegetables

#### PROCESSING OF FOOD

- (1) Cooking of food -Transfer of heat by conduction, convection and radiation.
- (2) Principles involved in the different methods of cooking – boiling, stewing, grilling, baking, roasting, frying, steaming, pressure cooking, cooking in a microwave oven.

#### FOOD PREPARATION

- (1) Convenience foods- Foods partly or totally prepared by a food manufacturer – dehydrated, tinned, frozen, ready to eat. Intelligent use of these foods.
- (2) Advantages and disadvantages



## Paper – VIII- YOGA INTERVENTION IN PSYCHIATRIC CONDITIONS

<b>Name of the Program</b>	<b>Bachelor of Occupational Therapy (BOT)</b>
<b>Name of the Course</b>	<b>Yoga Intervention in Psychiatric Conditions -Theory</b>
<b>Course Code</b>	<b>BOT23S808</b>
<b>Course Description</b>	<b>Elective Theory</b>
<b>Credit per Semester</b>	<b>2 credits</b>
<b>Hours per Semester</b>	<b>45</b>

<b>Course Learning Outcomes: The student will be able to</b>	
CO 1	Understand about various psychiatric disorders
CO 2	Learn about yoga and its importance in treating these disorders
CO 3	Demonstrate the therapeutic measures

### Course of Study

1. Stress
2. Anxiety disorders
3. Behavioural and emotional disorders in children
4. Bipolar affective disorder
5. Depression
6. Dissociation and dissociative disorders
7. Eating disorders
8. Obsessive compulsive disorder
9. Paranoia
10. Post-traumatic stress disorder
11. Psychosis
12. Schizophrenia

## Model Paper

This question paper contains 1 printed page

**Semester VIII BOT**

**BOT23S801**

**Cl. Neu.**

### **Semester VIII Bachelor of Occupational Therapy Examination Month Year**

#### **Paper – I CLINICAL NEUROSURGERY**

**Time: Three Hours**

**Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

#### **Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |     |   |    |
|-----|---|----|
| Q.1 | Describe the Surgical management of brain disease and CVA   | 10 |
| Q.2 | What is Neuro-surgical Intensive care?  | 10 |
| Q.3 | What is Neurogenic Bladder-Classification & management  | 10 |
| Q.4 | Discuss the spinal cord disorders and their pathophysiology   | 10 |
| Q.5 | What is head injury, discuss its clinical signs and symptoms with its classification and management | 10 |
| Q.6 | Describe Focal peripheral neuropathy management in brief.   | 10 |

#### **Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |       |                          |   |
|-------|--------------------------|---|
| Q. 7  | Tibial nerve palsy       | 5 |
| Q. 8  | Deep brain stimulation   | 5 |
| Q. 9  | bell's palsy             | 5 |
| Q. 10 | Causes of blackouts      | 5 |
| Q. 11 | Craniotomy               | 5 |
| Q. 12 | Spina bifida             | 5 |
| Q. 13 | Thoracic outlet syndrome | 5 |
| Q. 14 | Brachial plexus palsy    | 5 |

## Model Paper

This question paper contains 1 printed page  
**Semester VIII BOT**  
**BOT23S802**

**Psych.**

### **Semester - VIII Bachelor of Occupational Therapy Examination Year**

#### **Paper-II PSYCHIATRY**

**Time: Three Hours**  
Maximum Marks: 70

Student shall be allowed to take only one supplementary copy along with one main answer book  
All the parts of one question should be answered at one place.  
Different part of one question should not be answered at different places in the answer book.  
Draw diagrams wherever necessary

#### **Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |      |   |    |
|------|---|----|
| Q. 1 | Briefly discuss the role of defense mechanism with examples in normal and abnormal behavior.                  | 10 |
| Q. 2 | Describe psychological reactions of a patient during admission and treatment.                                 | 10 |
| Q. 3 | Describe the etiology, clinical features, course, treatment and prognosis of mood disorders.                  | 10 |
| Q. 4 | Briefly describe etiology and clinical features of sexual dysfunctions and gender identity disorders          | 10 |
| Q.5  | How occupational therapy is relevant and significant in management of schizophrenia And psychosomatic illness | 10 |
| Q. 6 | Briefly describe various methods of treatment in psychiatry   | 10 |

#### **Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |       |  |   |
|-------|--|---|
| Q. 7  | Physiatric disorders of childhood                                  | 5 |
| Q. 8  | sleep disorders  | 5 |
| Q. 9  | Civil and criminal responsibility                                  | 5 |
| Q. 10 | Individual and group psychotherapy                                 | 5 |
| Q. 11 | Types and clinical features and etiology or dissociative disorders | 5 |
| Q. 12 | Criteria of classification in psychiatry                           | 5 |
| Q. 13 | what is id, ego and superego                                       | 5 |
| Q. 14 | personality disorders  | 5 |

## Model Paper

This question paper contains 1 printed page  
**Semester VIII BOT**  
**BOT23S803**

**Adv. OT & Rehab.**

### **Semester-VIII Bachelor of Occupational Therapy Examination Month Year**

#### **Paper-III ADVANCES OCCUPATIONAL THERAPY IN REHABILITATION**

**Time: Three Hours**  
Maximum Marks: 70

Student shall be allowed to take only one supplementary copy along with one main answer book  
All the parts of one question should be answered at one place.  
Different part of one question should not be answered at different places in the answer book.  
Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |     |  |    |
|-----|--|----|
| Q.1 | Define occupational therapy in blind in details.                         | 10 |
| Q.2 | What is assistive technology? Give the classification with examples.     | 10 |
| Q.3 | Define biofeedback and its role in OT                                    | 10 |
| Q.4 | What is quality assurance? Discuss in brief.                             | 10 |
| Q.5 | Discuss the occupational therapy role in hospice management.             | 10 |
| Q.6 | Discuss the role of occupational therapy in cardiopulmonary dysfunction. | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |       |   |   |
|-------|---|---|
| Q.7   | Stress  | 5 |
| Q. 8  | Health promotion                                | 5 |
| Q. 9  | Industrial rehabilitation                       | 5 |
| Q. 10 | Fiscal management                               | 5 |
| Q. 11 | Role of occupational therapy in sports medicine | 5 |
| Q. 12 | wellness program                                | 5 |
| Q. 13 | Robotics  | 5 |
| Q. 14 | Hospice care                                    | 5 |

## Model Paper

This question paper contains 1 printed page

**Semester VIII BOT  
BOT23S804**

**OT in Ment. Health**

### **Semester VIII Bachelor of Occupational Therapy Examination Month Year**

#### **Paper – IV**

#### **OCCUPATIONAL THERAPY IN MENTAL HEALTH**

**Time: Three Hours**

**Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |     |   |    |
|-----|---|----|
| Q.1 | Describe the role of occupational therapy in various psychiatric conditions.  | 10 |
| Q.2 | What are the various frames of reference (OT) used in psychiatric conditions? | 10 |
| Q.3 | What is psychodynamic? Explain it with examples.                              | 10 |
| Q.4 | Discuss the OT role in Schizophrenia.   | 10 |
| Q.5 | What are the mood disorders? Discuss the OT role.                             | 10 |
| Q.6 | Describe Autism and its recent occupational therapy management in brief.      | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |       |                                   |   |
|-------|-----------------------------------|---|
| Q.7   | Mental retardation                | 5 |
| Q. 8  | Psychiatric problems of childhood | 5 |
| Q. 9  | Therapeutic groups                | 5 |
| Q. 10 | Sheltered workshops               | 5 |
| Q. 11 | eating disorder                   | 5 |
| Q. 12 | Learning disabilities             | 5 |
| Q. 13 | Personality disorders             | 5 |
| Q. 14 | Organic brain syndrome            | 5 |

## Model Paper

This question paper contains 1 printed page  
**Semester VIII BOT**  
**BOT23S805**

**Pul. Fun. Test**

### **Semester VIII Bachelor of Occupational Therapy Examination Month Year**

#### **Paper- V**

#### **RESEARCH METHODOLOGY AND BIOSTATICS (NUE)**

**Time: Three Hours**

**Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book  
All the parts of one question should be answered at one place.  
Different part of one question should not be answered at different places in the answer book.  
Draw diagrams wherever necessary

#### **Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |   |    |
|---|----|
| Q.1 What is the difference between reliability & validity; describe its significant in research?  | 10 |
| Q.2 Explain sampling & sampling techniques?   | 10 |
| Q.3 What are the stages of research process? Explain in detail.                                   | 10 |
| Q.4. What is the difference between reliability & validity; describe its significant in research? | 10 |
| Q.5 Explain sampling & sampling techniques?   | 10 |
| Q.6 What are the stages of research process? Explain in detail.                                   | 10 |

#### **Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |                             |   |
|-----------------------------|---|
| Q.7 Data collection         | 5 |
| Q.8 Scales of measurement   | 5 |
| Q.9 What is hypothesis      | 5 |
| Q.10 Review of literature   | 5 |
| Q.11 Selection of sample    | 5 |
| Q.12 Pilot study.           | 5 |
| Q.13 Sample size            | 5 |
| Q14. Importance of research | 5 |

## Model Paper

This question paper contains 1 printed page

**Semester VIII BOT**

**BOT23S806**

**Pul. Fun. Test**

### **Semester VIII Bachelor of Occupational Therapy Examination Month Year**

#### **Paper- VI**

#### **PULMONARY FUNCTION TESTS (Elective Course)**

**Time: Three Hours**

**Maximum Marks: 70**

Student shall be allowed to take only one supplementary copy along with one main answer book

All the parts of one question should be answered at one place.

Different part of one question should not be answered at different places in the answer book.

Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |   |    |
|---|----|
| Q.1 Explain in detail about lung volumes?   | 10 |
| Q.2 Mention the significance of arterial blood gas (ABG)?                             | 10 |
| Q.3 Define spirometry and discuss its importance?                                     | 10 |
| Q.4. Describe in detail about the evaluation and monitoring of respiratory functions? | 10 |
| Q.5 Discuss about Broncho challenge tests?  | 10 |
| Q.6 Enumerate the significance of maximal voluntary ventilation (MVV)?                | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |                                   |   |
|-----------------------------------|---|
| Q.7 Diffusion capacity            | 5 |
| Q.8 Walking Oximetry              | 5 |
| Q.9 Maximal Expiratory Pressure   | 5 |
| Q.10 Lung capacities              | 5 |
| Q.11 Breathing exercises          | 5 |
| Q.12 Pulmonary function test      | 5 |
| Q.13 Maximal Inspiratory Pressure | 5 |
| Q14. Anatomy of lungs             | 5 |

## Model Paper

This question paper contains 1 printed page  
**Semester VIII BOT**  
**BOT23S807**

**Cl. Nut.**

### Semester VIII Bachelor of Occupational Therapy Examination Month Year

#### Paper- VII

#### CLINICAL NUTRITION (Elective Course)

**Time: Three Hours**  
Maximum Marks: 70

Student shall be allowed to take only one supplementary copy along with one main answer book  
All the parts of one question should be answered at one place.  
Different part of one question should not be answered at different places in the answer book.  
Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |  |    |
|--|----|
| Q.1 Explain in detail about digestive system?          | 10 |
| Q.2 Mention the significance of food preparation?      | 10 |
| Q.3 Discuss the importance of nutritive value of food? | 10 |
| Q.4. Describe in detail about the processing of food?  | 10 |
| Q.5 Discuss the principles of methods of cooking?      | 10 |
| Q.6 Enumerate the various dietary guidelines?          | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |  |   |
|--|---|
| Q.7 Balanced Diet                                    | 5 |
| Q.8 Food sources from which key vitamins are derived | 5 |
| Q.9 Cooking in microwave oven                        | 5 |
| Q.10 Intelligent use of processed food               | 5 |
| Q.11 Composition of food                             | 5 |
| Q.12 Meals for all ages and occupations              | 5 |
| Q.13 Cooking of food                                 | 5 |
| Q.14. Advantages of food preparation                 | 5 |



## Model Paper

This question paper contains 1 printed page  
**Semester VIII BOT**  
**BOT23S808**

**Yoga. Int. Psy.**

### **Semester VIII Bachelor of Occupational Therapy Examination Month Year**

#### **Paper- VIII**

#### **YOGA INTERVENTION IN PSYCHIATRIC DISORDERS (Elective Course)**

**Time: Three Hours**  
Maximum Marks: 70

Student shall be allowed to take only one supplementary copy along with one main answer book  
All the parts of one question should be answered at one place.  
Different part of one question should not be answered at different places in the answer book.  
Draw diagrams wherever necessary

**Long answer question (Attempt any FOUR Questions out of SIX) (4x10=40)**

- |  |    |
|--|----|
| Q.1 Explain in detail about stress and its management?                     | 10 |
| Q.2 Mention the significance of yoga in bipolar affective disorder         | 10 |
| Q.3 Discuss the importance of Yoga Intervention for Psychiatric Disorders? | 10 |
| Q.4. Describe in detail about the anxiety disorders?                       | 10 |
| Q.5 Discuss the types of OCD?  | 10 |
| Q.6 Enumerate the various schizophrenia types and its intervention?        | 10 |

**Short answer question (Attempt any SIX Questions out of EIGHT) (6x5=30)**

- |  |   |
|--|---|
| Q.7 Paranoia   | 5 |
| Q.8 Depression                                       | 5 |
| Q.9. Eating disorders                                | 5 |
| Q.10 Post traumatic stress disorder                  | 5 |
| Q.11 Dissociation Disorders                          | 5 |
| Q.12 Psychosis                                       | 5 |
| Q13. Dissociative disorders                          | 5 |
| Q 14. Behavioral and emotional disorders in children |   |